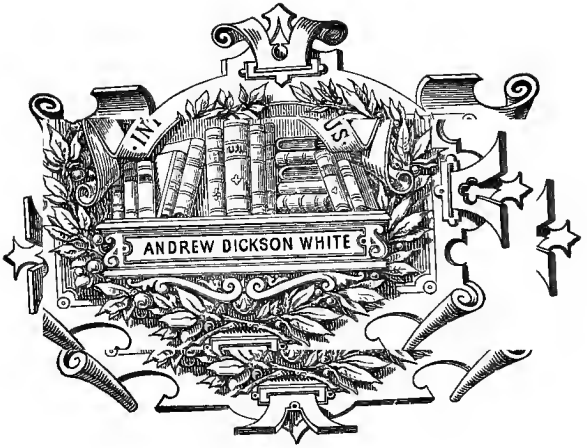
UNITED STATES
OFFICIAL CATALOGUE

UNIVERSAL EXPOSITION AT PARIS 1878


IN
US
ANDREW DICKSON WHITE

Cornell University Library
T 802.G1U58
Official catalogue of the United States
3 1924 021 898 097
olin

Cornell University Library

The original of this book is in
the Cornell University Library.

There are no known copyright restrictions in
the United States on the use of the text.

http://www.archive.org/details/cu31924021898097

OFFICIAL CATALOGUE OF THE UNITED STATES EXHIBITORS.

PARIS UNIVERSAL EXPOSITION
MDCCC LXXVIII

OFFICIAL CATALOGUE

OF THE UNITED STATES EXHIBITORS

Compiled by THOMAS R. PICKERING and published by Direction of the Commissioner-General

LONDON: PRINTED AT THE CHISWICK PRESS
MDCCC LXXVIII

Price Two Francs

D

TABLE OF CONTENTS

		PAGE
Joint Resolution of Congress	I	vii
United States Commissioners	II	xi
Official Instructions	III	xix
Staff of the Commissioner-General	IV	xxiii
United States Jurors	V	xxv
Alphabetical Catalogue of Exhibitors	VI	1
Classified List of Exhibitors	VII	131
Fine Arts	VIII	241

JOINT RESOLUTION OF CONGRESS

In relation to the International Industrial Exposition to be held in Paris in eighteen hundred and seventy-eight.

HEREAS, the United States have been invited by the Republic of France to take part in a Universal Exposition of the productions of agriculture, manufactures, and the fine arts, to be held in Paris in eighteen hundred and seventy-eight: Therefore,

Resolved by the Senate and House of Representatives of the United States of America in Congress assembled, That said invitation is accepted, and that the Governors of the several States and Territories be, and are hereby, requested to invite the people of their respective States and Territories to assist in the proper representation of the productions of our industry, and of the natural resources of the country, and to take such further measures as may be necessary in order to secure to their respective States and Territories the advantages to be derived from this beneficent undertaking.

SEC. 2.—That the President, by and with the ad-

vice and consent of the Senate, shall appoint a Commissioner-General to represent the United States in the proposed exposition, and, under the general direction of the Secretary of State, to make all needful rules and regulations in reference to the contributions from this country, and to control the expenditures incident to the proper installation and exhibition thereof, and to the preparation of the reports on the exposition; and that the President may also appoint twenty additional commissioners, no two of whom shall be appointed from any one State, of whom three shall be practical artisan experts, three shall be skilled representatives of commerce and manufactures, and four shall be practical agriculturists, nine shall be scientific experts, corresponding to and specifically assigned to report upon, the nine groups into which the exposition will, under the official regulations, be divided, and one who shall be assistant commissioner-general, and shall perform the duties of commissioner-general in case of his death or disability, and shall report upon the exhibition at large, and the general results thereof; that the allowance to said commissioner-general for salary and personal expenses shall not exceed five thousand dollars for his whole term of office; and the allowance of the twenty additional commissioners for salary and personal expenses shall not exceed twelve hundred dollars each, not including such clerical service as may be allowed by the commissioner-general, which shall not exceed fifteen thousand dollars; and the Governors of the several States may nominate and the President appoint two honorary commissioners from each of the several States, and the President may appoint twenty-four additional honorary commissioners, among whom there shall be at least one resident of

each of the Territories of the United States, which said honorary commissioners may report upon such special subjects as the commissioner-general may direct, and shall serve without pay or other expense to the United States. *And provided further*, That in case the authorities of any State or Territory shall appoint a commissioner or commissioners to represent the interests of such State or Territory at said exhibition, said commissioner or commissioners so appointed shall have the same status in the commission as the honorary commissioners provided for herein, but shall not be entitled to either pay or compensation out of the money hereby appropriated. *Provided always*, That no person appointed by virtue of this resolution shall have any pecuniary interest, directly or indirectly, in any article exhibited for competition, or act as the agent for any exhibitor. And not more than one of the commissioners entitled to compensation, nor more than five of the honorary commissioners shall be appointed from any one State or Territory.

SEC. 3.—That the President be authorized, in his discretion, to assign one or more of the public vessels to transport to and from France, free of cost, under regulations to be prescribed by the commissioner-general, such articles as may be offered for exhibition by the citizens of the United States.

SEC. 4.—That in order to defray the necessary expenses above authorized, and for the proper installation of the exhibition, and the expenditures of the commissioner-general made under the direction of the Secretary of State, and with his approval, and not otherwise, there be, and hereby is, appropriated, out of any money in the Treasury of the United States not otherwise appropriated, the sum of one hundred

and fifty thousand dollars, or so much thereof as may be necessary for the purposes herein specified, which sum shall be expended under the direction of the Secretary of State; and out of such amount the Commissioner of Agriculture is hereby authorized to collect and prepare as far as practicable, and with as little delay as possible, suitable specimens of the agricultural productions of the several States and Territories of the Union for exhibition at the Paris Exposition.

SEC. 5.—That it shall be the duty of the Secretary of State to transmit to Congress a detailed statement of the expenditures which may have been incurred under the provisions of this Resolution, together with all reports called for under Section 2 of this Resolution, which reports shall be prepared and arranged with a view to concise statement and convenient reference.

Approved, December 15, 1877.

UNITED STATES COMMISSIONERS

COMMISSIONER GENERAL

Appointed by the President and Confirmed by the Senate, December 15, 1877

RICHARD C. McCORMICK

Washington, D. C.

ADDITIONAL COMMISSIONERS

Appointed by the President.

F. A. P. BARNARD,* New York City.
DANIEL J. MORRELL, Johnstown, Pennsylvania.
ORESTES CLEVELAND, Jersey City, New Jersey.
DONALD G. MITCHELL, New Haven, Connecticut.
WILLIAM W. STORY,* Boston, Massachusetts.
HENRY HOWARD, Providence, Rhode Island.
WILLIAM T. PORTER, Wilmington, Delaware.
THOMAS B. FERGUSON, Baltimore, Maryland.
WILLIAM A. ANDERSON, Lexington, Virginia.

* Designated to act as Assistant Commissioner General.

George W. Campbell, Delaware, Ohio.
John J. Woodman, Paw Paw, Michigan.
Andrew J. Sweeney, Wheeling, West Virginia.
Samuel Dysart, Franklin Grove, Illinois.
Thomas E. Jenkins, Louisville, Kentucky.
Floyd P. Baker, Topeka, Kansas.
James D. Hague, San Francisco, California.
P. M. B. Young, Atlanta, Georgia.
Aristide Gerard, New Orleans, Louisiana.
Joshua L. Chamberlain, Brunswick, Maine.
Sylvester Waterhouse, St. Louis, Missouri.

HONORARY COMMISSIONERS

Appointed by the President.

Andrew D. White, Ithaca, New York.
Levi P. Morton, New York City.
George W. Childs, Philadelphia, Pennsylvania.
W. W. H. Davis, Doylestown, Pennsylvania.
A. L. Coolidge, Boston, Massachusetts.
Frederick Smythe, Manchester, New Hampshire.
Edwin Cowles, Cleveland, Ohio.
James H. Smart, Indianapolis, Indiana.
Frank Millward, Covington, Kentucky.
Benjamin E. Gallup, Chicago, Illinois.
James M. Safford, Nashville, Tennessee.
William Seligman, San Francisco, California.
Serens T. Merrill, Beloit, Wisconsin.
William A. Moore, Edenton, North Carolina.
L. J. Du Pré, Austin, Texas.
Edward H. Knight, Washington, District of Columbia.

JOHN A. TONNER, Yuma, Arizona.
AUSTIN SAVAGE, Boise City, Idaho.
JOSEPH P. WOOLMAN, Helena, Montana.
CARL C. P. MEYER, Yankton, Dakota.
C. H. BENNETT, Salt Lake City, Utah.
WM. C. RENCHER, Santa Fe, New Mexico.
WILLIAM R. STEELE, Cheyenne, Wyoming.
ELLWOOD EVANS, Olympia, Washington Territory.

HONORARY COMMISSIONERS

Nominated by the Governors of the States and appointed by the President.

ALABAMA.

EUGENE A. SMITH, Tuscaloosa.
JAMES BERNEY, Montgomery.

ARKANSAS.

GEORGE E. DODGE, Little Rock.
BENTON J. BROWN, Van Buren.

CALIFORNIA.

WILLIAM C. QUINBY, San Francisco.
HENRY G. HANKS, San Francisco.

COLORADO.

ROBERT H. LAMBOURN, Denver.
MIERS FISHER, Denver.

CONNECTICUT.

WILLIAM P. BLAKE, New Haven.
HENRY C. WHITE, Hartford.

DELAWARE.

ALEXANDER MCLEOD, Wilmington.
ROBERT W. MUSTARD, Lewes.

FLORIDA.

GEORGE P. HART, Jacksonville.
JOHN E. HARTRIDGE, Jacksonville.

GEORGIA.

JOHN A. SPEER, La Grange.
FRANCIS FONTAINE, Columbus.

ILLINOIS.

JOHN M. GREGORY, Champaign.
OSBORN R. KEITH, Chicago.

INDIANA.

CLEM STUDEBAKER, South Bend.
FRANK C. JOHNSON, New Albany.

IOWA.

GUSTAVUS B. BRACKETT, Denmark.
ALFRED HEBARD, Red Oak.

KANSAS.

EUGENE L. MEYER, Hutchison.
MASON D. SAMPSON, Salina.

KENTUCKY.

BENNETT H. YOUNG, Louisville.
BERIAH MAGOFFIN, Harrodsburg.

LOUISIANA.

LOUIS BUSH, New Orleans.
CHARLES PARLANGE, Point Coupée.

MAINE.

FREDERICK ROBIE, Gorham.
ARTHUR F. DRINKWATER, Ellsworth.

MARYLAND.

JAMES HODGES, Baltimore.
THOMAS H. BUCKLER, Baltimore.

MASSACHUSETTS.

GEORGE C. RICHARDSON, Boston.
E. B. HASKELL, Boston.

MICHIGAN.

MARTIN RYERSON, Grand Rapids.
JOHN J. BAGLEY, Detroit.

MINNESOTA.

E. F. DRAKE, St. Paul.
A. C. DODGE, Albert Lea.

MISSISSIPPI.

F. E. WHITFIELD, Corinth.
FELIX LABOUVE, Hernando.

MISSOURI.

JOSEPH L. STEPHENS, Boonville.
CHARLES P. CHOUTEAU, St. Louis.

NEBRASKA.

J. STERLING MORTON, Nebraska City.
CHARLES H. DEWEY, Omaha.

NEVADA.

WILLIAM S. KEYES, Eureka.
JOHN W. MACKAY, Virginia City.

NEW HAMPSHIRE.

PARSONS B. COGSWELL, Concord.
CHARLES H. ROBERTS, Concord.

NEW JERSEY.

GEORGE A. HALSEY, Newark.
ELLIS A. APGAR, Trenton.

NEW YORK.

PARKE GODWIN, New York City.
JOHN T. NORTON, Albany.

NORTH CAROLINA.

W. H. H. TUCKER, Raleigh.
LEICESTER CHAPMAN, Ashville.

OHIO.

HENRY C. YOUNG, Cincinnati.
JOHN GROSSIUS, Cincinnati.

OREGON.

JOHN VAN BEURDEN, Portland.
HOMER DEARBORN SANBORN, Portland.

PENNSYLVANIA.

JOHN H. HARJES, Philadelphia.
WILLIAM LUCIEN SCAIFE, Pittsburg.

RHODE ISLAND.

J. HERBERT SHEDD, Providence.
DANIEL J. LITTLEFIELD, Pawtucket.

SOUTH CAROLINA.

W. A. CLARK, Columbia.
WILLIAM J. LAVAL, Columbia.

TENNESSEE.

PETER STAUB, Knoxville.
BRONSON BAYLESS, Memphis.

TEXAS.

ASHBEL SMITH, Houston.
JOHN C. WALKER, Galveston.

VERMONT.

J. GREGORY SMITH, St. Albans.
LUKE P. POLAND, Rutland.

VIRGINIA.

JOHN ECHOLS, Staunton.
R. P. ARCHER, Richmond.

WEST VIRGINIA.

R. M. DELAPLAINE, Wheeling.
J. N. CAMDEN, Parkersburg.

WISCONSIN.

ROBERT H. BAKER, Racine.
JOSEPH G. THORP, Eau Claire.

OFFICIAL INSTRUCTIONS.

DEPARTMENT OF STATE,
WASHINGTON,
March 12th, 1878.

UNDER the Joint Resolution of Congress, in relation to the International Industrial Exposition to be held in Paris in 1878 (approved Dec. 15th, 1877), the Honourable RICHARD C. MCCORMICK has been appointed Commissioner-General to represent the United States at the said Exposition, and, under the general direction of the Secretary of State, to make all needful rules and regulations in reference to the contributions from this country, and to control the expenditures incident to the proper installation and exhibition thereof, and to the preparation of the reports on the Exposition.

The rules and regulations which he has already prepared and issued are approved, and the following general directions are prescribed:

The supervision and management of the Exhibition upon the part of the United States, and the control of all interior and exterior space allotted for the same by the

French authorities, will be exclusively in the hands of the Commissioner-General.

The selection of superintendents, clerks, and all employés to be paid out of the Congressional appropriation, will be left to him ; and all persons employed in connection with the United States department at the Exposition by Exhibitors, or in any way occupied upon the premises, will be under his direction.

The Assistant Commissioner-General will perform the duties of the Commissioner-General in his absence, and will also report upon the Exposition at large, and the general results thereof. Such report must be furnished to the Department of State by May 1st, 1879.

The Additional Commissioners appointed as practical artisan experts, and those appointed as skilled representatives of commerce and manufactures, will undertake the work of examining and reporting upon such classes in the grouping of the Exposition as may come within the particular line of their knowledge and experience.

The Additional Commissioners appointed as practical agriculturists, will undertake similar duties in connection with the agricultural and horticultural departments of the Exposition.

The Additional Commissioners will be entitled to no compensation or allowance beyond the sum of twelve hundred dollars each provided by Congress, nor will they be paid the whole or any part of said sum unless they report to the Commissioner-General, in Paris, and remain there in the discharge of the duties assigned to them until formally relieved by him, and in all matters in connection with the Exposition they will act under his direction.

In the Main Exposition Building, or elsewhere, as it may prove most convenient, an office will be provided

for the Additional Commissioners, and a suitable person placed in charge of it as a general Secretary.

Necessary clerks for the Additional Commissioners, not to exceed one for two Commissioners, may be provided by the Commissioner-General during the time said Commissioners remain at the Exposition in the discharge of official duty, or during so much of said time as the services of clerks may be required.

The Commissioner-General may call meetings of the Additional Commissioners for any purpose, at his discretion, and preside at the same, or designate an Additional Commissioner who shall take the chair.

The Commissioner-General may designate any of the Honorary Commissioners to report upon special subjects, but in each instance he will see that they investigate and report upon subjects to which the Additional Commissioners formally assigned by the President to the nine groups (into which the Exposition under the French regulations is divided), will be unable to give attention.

The Commissioner-General is not authorized, under the resolution of Congress, to provide Honorary Commissioners with clerical assistance, or to assume any expense whatever upon their account.

The reports upon inventions and the various products displayed which are most advanced in the sciences, in the arts and in the industries, are expected to give a clear and practical description of such inventions, and of the methods and processes connected with such products.

Each report will be made upon the responsibility of the person charged with it, and he will sign his name to it.

The reports will be transmitted to the Department of State with as little delay as possible after the close of the

Exposition—certainly not later than the first of January, 1879.

They must be in form fitted to transit to Congress for publication, subject to arrangement with a view to concise statement and convenient reference.

WM. M. EVARTS.

THE STAFF OF THE COMMISSIONER-GENERAL.

Secretaries.

FRANK W. CLANCY.
AUGUSTE H. GIRARD.

Engineer and Architect.

HENRY PETTIT.

Secretary.

GEORGES PATTE.

Superintendents of Sections.

Installation: RUFUS M. SMITH.
Machinery: THOMAS R. PICKERING.
Fine Arts: D. MAITLAND ARMSTRONG.
Education: JOHN D. PHILBRICK.
Agriculture: WILLIAM MCMURTRIE.
Minerals: HENRY G. HANKS.

Military Attaché.

LIEUT. ALEXANDER RODGERS, U.S.A.

Naval Attaché.

LIEUT. BENJ. H. BUCKINGHAM, U.S.N.

Officers of United States Marines assigned to Duty at the Exposition.

LIEUT. BENJAMIN R. RUSSELL.
LIEUT. WILLIAM F. ZEILIN.

Medical Attaché.

DR. EDWARD WARREN.

Clerical Assistants to the Commissioner-General and the Additional Commissioners.

GEORGE GIFFORD.
RUDOLPH KAUFFMANN.
SAM. W. SMALL.
WALTER W. BARKER.
HENRY R. CURTISS.
S. MURRAY HAMILTON.
CHARLES COLNÉ.
WILLIAM A. BROWN.
CHARLES T. ELY.
HERMAN L. PHELPS.
JESSE HOYT, JR.
WALTER B. HURD.
A. M. WADDELL, JR.

JURORS REPRESENTING THE UNITED STATES

Thirty-four in All

Class 1.—Oil Paintings.
Class 2.—Various Paintings and Drawings.

FRANK D. MILLET.

Class 5.—Engravings and Lithographs.

THOMAS P. RICH.

Class 7.—Organization and Appliances for Secondary Instruction.

JOHN D. PHILBRICK, LL.D.

Class 9.—Printing, Books, Lithography, black or coloured, Special Collections, Periodicals, *etc.*

HENRY STEVENS.

Class 10.—Stationery, Bookbinding, Painting, and Drawing Materials.

CHARLES C. FULTON.

Class 12.—Photographic Proofs and Apparatus.

HENRY C. WHITE.

Class 13.—Musical Instruments.

B. Berend, Jr.

Class 14.—Medicine, Hygiene, and Public Relief.

Dr. Thomas W. Evans.

Class 17.—Cheap and Fancy Furniture.

Thomas B. Oakley.

Class 24.—Goldsmiths' and Silversmiths' Work.

Jacques Scheib.

Class 26.—Clocks and Watches.

Thomas W. Knox.

Class 27.—Apparatus and Processes for Heating and Lighting.

James W. Tucker.

Class 38.—Clothing for Both Sexes.

Anthony Van Bergen.

Class 40.—Portable Weapons and Hunting and Shooting Equipments.

General Carroll Tevis.

Class 43.—Mining and Metallurgy.

Prof. Wm. P. Blake.
James D. Hague.

Class 46.—Agricultural Products not used for Food.

Ashbel Smith.

Class 47.—Chemical and Pharmaceutical Products.

DR. THOMAS E. JENKINS.

Class 49.—Leather and Skins.

ADOLPH H. REITLINGER.

Class 51.—Agricultural Implements and Processes used in the Cultivation of Fields and Forests.

FRANK C. JOHNSON.

Class 54.—Machines and Apparatus in General.

PROF. GEORGE DAVIDSON.
THOMAS JAMES SLOAN.

Class 55.—Machine Tools.

BENJAMIN B. HOTCHKISS.
CHARLES R. GOODWIN.

Class 58.—Apparatus and Processes for Sewing and Making up Clothing.

DANIEL G. LITTLEFIELD.

Class 59.—Apparatus and Processes used in the Manufacture of Furniture and Objects for Dwellings.

DR. ROBERT GRIMSHAW.

Class 62.—Carriages and Wheelwrights' Work.

JOHN MUNROE.

Class 64.—Railway Apparatus.

ROBERT M. DELAPLAINE.

Class 66.—Apparatus and Processes of Civil Engineering, Public Works, and Architecture.

PROF. WILLIAM WATSON.

Class 68.—Materials and Apparatus for Military Purposes.

General W. W. H. Davis.

Class 69.—Cereals, Farinaceous Products, and Products derived from them.

Dr. Wm. E. Johnston.

Class 72.—Meat and Fish.

Dr. Edward Pepper.

Class 75.—Fermented Drinks.

Dr. Antoine Ruppaner.

Class 76.—Specimens of Farm Buildings and Agricultural Works.

Edward H. Knight, LL.D.

First Vice-President.

Group II.—Education and Instruction, Apparatus and Processes of the Liberal Arts.

Andrew D. White, LL.D.

ALPHABETICAL CATALOGUE

OF THE

UNITED STATES EXHIBITORS AT THE UNIVERSAL EXPOSITION OF 1878 AT PARIS

ABBEY (CHARLES) AND SONS, Philadelphia, Pa.
103. Dentists' Fine Gold Foil.
Industrial, B. 3. *Class* 14.

ABENDROTH BROS., Manufactory, Port Chester, N.Y. Office, New York City.
210. Stoves, Ranges, Heating Apparatus, and Ornamental Iron Work.
Industrial, C. 3. *Class* 27.

ADAIR, MRS. A. P., Muscogee, Indian Territory.
Sugar Corn.
Agricultural, Central. *Class* 69.

ADAMS, BLACKMER AND LYON PUBLISHING COMPANY, Chicago, Ill.
School Text-Books.
Educational. *Class* 6.

ADAMS AND KEEN, Philadelphia, Pa.
231. Curaçoa Brush Kid.
Industrial, C. 1. *Class* 49.

ADAMS, R. A., Johnson County, N.C.
Cheefas,—Ground-Nuts.
Agricultural, Central. *Class* 73.

ADAMS AND SHALER, New York City.
637. Extract of Bark.
Industrial, C. 1. *Class* 49.

ADAMS AND TAGGART, Watertown, N. Y.
769. Machine for Making Paper Bags.
Machinery, 2. *Class* 61.

ADAMS AND WESTLAKE, Chicago, Ill.
Petroleum Stoves for Heating and Cooking Purposes.
Industrial, D. 3. *Class* 27.

ADRIAN, Michigan. W. H. Payne, Superintendent.
1. Scholars' Work, Examination Papers, 1 vol.
2. History of the Public Schools, 1 vol.
Educational. Class 6.

ADRIANCE, PLATT, AND CO., New York City.
273. One New Model "D" A. P. and Co. "Buckeye" Mower. One ditto with Manual Delivery. One A. P. and Co. "Buckeye" Combined Mower and Self-Raking Reaper. One "Adriance" Self-Raking Single Reaper.
Agricultural, 2. *Class* 76.

AIKEN AND DRUMMOND, Louisville, Kentucky.
686. This Machine is used for Making Moulds for all classes of Metal Castings, and may be operated by steam power or by hand.
Agricultural, 1. *Class* 50.

AIKEN, LAMBERT, AND CO., New York City.
525. Gold Pens, Cases, Pencils. Horse Timers.
Industrial, C. 1. *Classes* 10 *and* 15.

ALABAMA STATE DEPARTMENT OF PUBLIC INSTRUCTION.
Reports of the Superintendent of Public Instruction.
Educational. Class 6.

ALBANY HIGH SCHOOL, Albany, New York. John E. Bradley, Principal.
1. Plans and Views of School Buildings.
2. Bound volumes of Reports.
3. Scholars' Work, 2 vols.
Educational. Class 7.

ALBERT, CHARLES F., Philadelphia, Pa.
4. Violins and Violoncellos.
Industrial, B. 3. *Class* 13.

ALBRIGHT, ANDREW, Newark, N. J.
596. Rubber-coated Harness, and Carriage Trimmings; a metal core, covered with a coating of hard India-rubber, a tough, elastic composition; impervious to acids, water, and atmosphere, will not tarnish, and protects the leather from iron rust, &c.
Agricultural, 3. *Class* 63.

ALEXANDRIA PUBLIC SCHOOLS, Virginia. R. L. Carnes, Superintendent.
Superintendent's Report, 1876-'77, 1 vol.
Educational. Class 6.

ALLEN (J. F.) AND CO., Richmond, Va.
Tobacco in all Forms.
Alimentary, 2. *Class* 46.

ALLEN (JOHN) AND SONS, New York City.
557. Artificial Dentures.
Industrial, B. 2. *Class* 14.

ALLEN (R. H.) AND CO., New York City.
861. Warehouse Trucks, furnished for use of Commission.
Agricultural. Class 62.

ALLEN AND ROEDER, New York City.
167. Pneumatic Riveting Machinery, and Air Compresser.
Machinery, 1. *Class* 54.

ALLENDALE CO., Providence, R.I.
Cotton Sheetings and Quilts, &c. Bleached Sheetings.
Industrial, B. 1. *Class* 30.

AMERICAN BOOKSELLER (American News Company), New York City.
662. American Bookseller.
Industrial, B. 3. *Class* 9.

AMERICAN BUTTON-HOLE, OVERSEAMING AND SEWING MACHINE COMPANY, Philadelphia, Pa.

373. Sewing Machines, with Self-Threading Shuttles, for Button-Hole, Overseaming, and Plain Work.

Machinery, 1. *Class* 58.

AMERICAN FENCE MANUFACTURING CO., New York City.

374. Fences: Wood and Wire Combined.

Near South Door of Agricultural Building. *Class* 76.

AMERICAN GRAPE SUGAR CO., Buffalo, N.Y.

Sugar and Syrup, from Grapes.

Alimentary, 3. *Class* 74.

AMERICAN MANUFACTURING AND EXPORTING CO., Philadelphia, Pa.

Oleomargerine, or Butter manufactured from fatty substances, such as tallow, &c.

Agricultural, Central. *Class* 71.

AMERICAN METRIC BUREAU, Boston, Mass. Melville Dewey, Secretary.

1. Publications, 7 vols.
2. Three Charts.
3. Cabinet containing 72 pieces of Apparatus.

Educational. *Class* 6.

AMERICAN MODEL JOB OFFICE (WM. J. KELLY, N.Y.), Exposition Building.

A Special EXHIBIT, showing in full operation a complete Printing Office, suited to the requirements of Exhibitors, Merchants, &c., capacity to execute in 5 or more languages. Material in use, the most modern made, and shown as separate exhibits, as follows: Plain and fancy Types, James Conners' Sons, New York. Script Types, Farmer, Little & Co., New York. Universal Presses (4) by M. Gally, New York. Coloured Printing Inks, A. C. Hoyt, New York. Black Inks, Sheldon Collins & Co., New York. Cabinets, Stands, Cases,

Wood Types by Vanderburgh, Wells & Co., New York City. Mechanical Quoins by Benj. F. Allen, Boston.
Machinery 3. *Class* 9.

AMERICAN PRINTING HOUSE FOR THE BLIND, Louisville, Ky.

1. Raised and Dissected Map of the United States. 2. Publications in three styles of type, 59 vols. 3. Spelling and Composition Frame. 4. Writing Guides for the pencil. 5. Apparatus to Illustrate new methods of making Stereotype Plates with great ease and cheapness.

Industrial, B. 3, *and Educational. Classes* 6 *and* 9.

AMERICAN SOCIETY OF CIVIL ENGINEERS, New York City.

505. Plans and Models of Engineering: Works Illustrative of Civil Engineering in the United States.

Industrial, C. 1. *Class* 66.

AMERICAN WATCH CO., Waltham, Mass.

323. Watches, Watch Movements, and Watch Materials.

The movements made by this company are constructed upon what is known as the "American system," with interchangeability of parts for the several grades manufactured, by the use of machinery devised and perfected in their factory. Independently of the advantages which result from the mere perfection of the manufacture in the adjustment of the parts (essentials of the highest importance), the convenience of this system in facilitating repairs is its most important feature from an economic point of view. Each watch is provided with Fogg's Patent Safety Pinion.

Industrial, C. 2. *Class* 26.

AMERICAN WINE CO., St. Louis, Mo.

Champagne.

Alimentary, 2. *Class* 75.

AMES, OLIVER AND SONS, North Easton, Mass.
2. Shovels, Spades, &c.
Industrial, D. 3. *Class* 51.

ANDERSON, A., Camden, N. J.
973. Tomatoes in Glass Jars.
Alimentary, F. 3. *Class* 73.

ANDRES, S. R., Philadelphia, Pa.
930. Beans, Prepared as Food. Bean Flour.
Alimentary. Class 69.

ANDREWS (A. H.) AND CO., Chicago, Ill.
1. School Desk. 2. Noiseless Slates, and other Apparatus for Schools.
Educational. Class 6.

ANHEUSER (E.) AND CO., BREWING ASSOCIATION, St. Louis, Mo.
Lager Beer.
Alimentary, 3. *Class* 75.

ANSONIA CLOCK CO., Ansonia, Conn.
388. Clocks and Movements.
Industrial, C. 2. *Class* 26.

APPLETON, COMPANY, Lowell, Mass.
Unbleached and Grey Cotton Cloth.
Industrial, B. 1. *Class* 30.

APPLETON (D.) AND CO., New York City.
325. Text-Books for Elementary, Secondary, and Superior Instruction, 61 vols., in Educational Department. Miscellaneous Books.
Industrial, B. 3, *and Educational. Classes* 6, 7, *and* 9.

ARCHER, T. A., New Orleans, La.
Broom Corn and its Manufacture.
Agricultural, 2. *Class* 46.

ASHER AND ADAMS, New York City.
169. Map of the United States, and Pictorial Album of American Industry.
Industrial, B. 3. *Class* 9.

ATCHISON PUBLIC SCHOOLS, Kansas. I. C. Scott, Superintendent.
1. Scholars' work. 2. View of High School Building.
Educational. Classes 6 *and* 7.

AUBURN MANUFACTURING COMPANY, Auburn, N. Y.
55. Agricultural Hand Implements: as Forks, Hoes, &c.
Industrial, D. 2. *Class* 51.

AUGUR, P. M., Middlefield, Conn.
Corn and Grain.
Agricultural, Central. Class 69.

AUGUSTA COTTON EXCHANGE, Augusta, Ga.
Cotton.
Agricultural, Central. Class 46.

AULTMAN (C.) AND CO., Canton, Ohio.
315. Two Buckeye Mowing Machines. One Table Rake. Side Delivery Reaper and Mower Combined. One Harvester and Automatic Self-Binder Combined. One Rear Delivery Reaper and Mower Combined. One Agricultural Engine, 12 horse power.
Agricultural, 3. *Class* 76.

AVERY, D. D., Iberia Parish, La.
Rock and Coarse Salt.
Agricultural, Central. Class 74.

BAEDER, ADAMSON AND CO., Philadelphia, Pa.
58. Glue, Emery, Sand Paper, Hair, Moss, &c.
Industrial, D. 3. *Class* 45.

BAGGER, LOUIS, Washington, D. C.
171. Parallel Ruler, Marking Pen, Friction Glass Bearings, for Cross Heads, Cylinder Packing Rings, and all other working parts of Machinery.
Agricultural, G. 3. *Classes* 10 *and* 54.

BAILEY, LEONARD AND CO., Hartford, Conn.
640. Adjustable Iron Bench Planes, Try Squares and Bevels, Box Scrapers and Spoke-Shaves.
Industrial, D. 2. *Class* 43.

BAILEY WRINGING MACHINE CO., New York City.
668. Clothes Wringers for Household and Manufacturing purposes.
Agricultural, G. 3. *Class* 60.

BAKER (H. J.) AND BRO., New York City.
534. Castor Oil, Borax, Refined Saltpetre, Camphor, and Refined Epsom Salts.
Industrial, C. 2. *Class* 47.

BAKER (J. R.) MANUFACTURING CO., New York City.
595. Anti-Friction, Non-Corrosive Metals.
Machinery, E. 2. *Class* 43.

BAKER (WALTER) AND CO., Boston, Mass.
356. Chocolate and Cocoa.
Alimentary, F. 3. *Class* 74.

BALTIMORE CITY SCHOOLS, Maryland. H. E. Shepherd, Superintendent.
Annual School Report, 1877, 1 vol.
Educational. Class 6.

BANNER (GEO. E.) AND ANNA G. FALES, New York City.
253. Steam Engine of One Horse Power.
Machinery, 2. *Class* 54.

BANTA, E., Milford, Del.
805. Dried Fruits.
Agricultural, Central. Class 73.

BARNARD, HENRY, Hartford, Conn.
"The American Journal of Education," 1856-1877, 26 large octavo vols.
Educational. Class 6.

BARNES (A. S.) AND CO., New York City.
330. Text-Books for Elementary, Secondary, and Superior Instruction, 156 vols. Miscellaneous Books and the "International Review."
Industrial, B. 3, *and Educational. Classes* 6, 7, *and* 9.

BARNES AND MERRITT, New York City.
644. Hemlock Leather.
Industrial, C. 1. *Class* 49.

BARNEY AND BERRY, Springfield, Mass.
57. Skates.
Industrial, D. 3. *Class* 43.

BARNEY, LEWIS T., Keokuk, Iowa.
Wines.
Agricultural, Central. Class 75.

BARNUM, RICHARDSON AND CO., Lime Rock, Conn.
213. Salisbury Iron Ores, Charcoal Pig Iron, Car Wheels, &c.
Machinery, F. 1. *Class* 43.

BARROWS (H. F.) AND CO., New York City.
554. Rolled Plated Jewellery.
Industrial, C. 2. *Class* 39.

BARRY, PETER, New York City.
Panel Painting for Carriages.
Industrial, D. 1. *Class* 11.

BATCHELLER AND SONS, Wallingford, Vt.
6. Agricultural Forks.
Industrial, D. 3. *Class* 51.

BATTLES, H. A., New Orleans, La.
Rice.
Agricultural, Central. *Class* 69.

BAUGH AND SONS, Philadelphia, Pa.
322. Chemical Fertilizers, and Raw Bone Material for same. Sectional Mills adapted to the reduction of Minerals, Bones, Ores, &c.
Agricultural, 3. *Classes* 51 *and* 52.

BAUSCH AND LOMB OPTICAL CO., New York City.
683. Optical Instruments: Eye Glasses, Magnifiers, Microscopes, Telegraphs, &c.
Industrial, B. 2. *Class* 15.

BAY STATE RAKE CO., Winchendon, Mass.
290. Horse Hay Rake.
Agricultural, 3. *Class* 76.

BEAL, J. H., New York City.
955. Photograph of New York City.
Industrial, B. 2. *Class* 12.

BEAUDET, HOMER J., Greenpoint, L. I.
Swing Convertible Cradle, and Combined Rocking Chair Cradle.
Industrial, D. 3. *Class* 17.

BECKEL, WM., Philadelphia, Pa.
1000. Student's Lamp, with Electric Lighting Attachment.
Industrial, D. 3. *Class* 27.

BELL, ALEXANDER GRAHAM, Boston, Mass.
1. Seven Charts and one Book, to explain the Universal System of Visible Speech, invented by Alexander Melville Bell. 2. Six volumes in Visible Speech Symbols, prepared by pupils in the School of Vocal Physiology.
Educational. Class 6.

BENCKE AND CO., New York. Chromolithography.
Industrial, B. 3. *Class* 9.

BENKERT (C.) AND SON, Philadelphia, Pa.
232. Boots, Shoes, &c.
Industrial, C. 3. *Class* 38.

BENNETT MOORE AND CO., Indianapolis, Ind.
Yellow and White Corn.
Agricultural, Central. Class 69.

BERGNER AND ENGEL, Philadelphia, Pa.
130. Lager Beer, Pilsen Beer, and Bock Beer.
Alimentary, 2. *Class* 75.

BERGNER, THEODORE, Philadelphia, Pa.
770. Wire Floor for Malt Kilns, made by special machinery invented by the exhibitor. Vastly increased area for passage of Hot Air, combined with smoothness and great strength of surface.
Agricultural, G. 3. *Class* 52.

BEST (PHILIP) BREWING CO., Milwaukee, Wis.
651. Lager Beer, bottled for export.
Alimentary, 2. *Class* 75.

BEVIN BROS. MANUFACTURING CO., East Hampton, Conn.
684. Bells: Sleigh, House, Hand, Gong, &c.
Industrial, D. 2. *Class* 43.

BICKFORD AND HUFFMAN, Macedon, N. Y.
483. Seed Drills, for sowing and measuring all kinds of Grain and Grass Seeds.
Agricultural, 3. *Class* 76.

BICKNELL, T. W., Boston, Mass.
1. National and New England Journals of Education in bound volumes. 2. Current issues of the same, and of "Primary Teacher" and "Good Times."
Educational. Class 6.

BIDWELL, JOHN, Chico, Cal.
Wheat: weighing 63—68 pounds per bushel.
Agricultural, Central. Class 69.

BIEN, JULIUS, New York City.
308. Geographical, Geological, and Astronomical Maps and Atlases. Lithography and Typography.
Industrial, B. 3. *Class* 9.

BIENVILLE OIL WORKS CO., New Orleans, La.
815. Products from Cotton Seed.
Agricultural, Central. Class 46.

BIGELOW CARPET CO., Clinton, Mass.
896. Moquette Carpeting.
Industrial, D. 2. *Class* 21.

BIRD (F. W.) AND SON, East Walpole, Mass.
Tarred Hardware, Cutlery, and Woollen Wrapping Paper.
Industrial, D. 3. *Class* 10.

BLABON (GEO. W.) AND CO., Philadelphia, Pa.
5. Oil Cloths of all kinds and for all purposes.
Industrial, B. 2. *Class* 21.

BLACKMAR AND ALLERTON, Newark, N. Y.
879. Clover Seed. White and Red Winter Wheat, and Beans. Steam and Atmospheric Dried Apples. Oil of Peppermint.
Agricultural, Central. Classes 47, 69, *and* 73.

BLAKE CRUSHER CO., New Haven, Conn.
682. Working Model of Blake's Patent Stone and Ore Crusher: a Machine for reducing rapidly and economically large pieces of Stone, or other hard and brittle substances, by the use of upright, convergent jaws, one of which has a short, vibratory motion.
Machinery, E. 3. *Class* 55.

BLATCHLEY, C. G., Philadelphia, Pa.
997. Ice Cream Freezers.
Agricultural, 3. *Class* 52.

BLISS BROS. AND EVERETT, Attleboro, Mass.
741. Rolled Plated Jewellery.
Industrial, *C.* 2. *Class* 39.

BLISS AND DEAN, Attleboro, Mass.
Jewellery, Lockets, &c.
Industrial, *C.* 2. *Class* 39.

BLISS AND WILLIAMS, Brooklyn, N. Y.
56. Presses, Dies, and Machines for making Tin-Ware, and Working Sheet Metals. Two Presses for Cutting, Drawing, and Stamping in one operation. One Press for Drawing. One Lathe for Spinning, Trimming, and Wiring at one setting. Combination Dies for performing different operations at one time. One Machine for Cutting, Drawing, and Stamping Sardine Boxes in one operation. One Machine for Cutting and Forming three Covers in one operation. One Machine for Trimming the Sardine Boxes. One Machine for Beading the same.
Machinery, 2. *Class* 55.

BLOWERS, R. B., Woodland, Cal.
835. Raisins.
Agricultural, Central. *Class* 73.

BOERICKE AND TAFEL, New York City.
766. Homœopathic Medical Books.
Industrial, *B.* 3. *Class* 9.

BOLEN AND BYRNE, New York City.
59. Mineral Waters and Apparatus; Siphons, and Aerated Beverages.
Industrial, *C.* 2. *Class* 47.

BONZANO, HUBERT, New Orleans, La.
817. Pecan Nuts.
Agricultural, Central. *Class* 73.

BOOSS (F.) AND BRO., New York City.
8. American Furs and Fur Clothing.
Industrial, C. 3. *Class* 45.

BOOTH, W., Portland, Oregon.
Canned Salmon.
Agricultural, Central. Class 72.

BOSTON PUBLIC SCHOOLS, Boston, Mass. Samuel Eliot, Superintendent.
1. City School Reports, 22 vols. 2. Scholars' Work, 84 vols., and 15 portfolios. 3. Complete set of Text-Books used in Elementary and High Schools: (a) Latin and Greek, 24 vols.; (b) French and German, 24 vols.; (c) English Language and Literature, 70 vols.; (d) History, 31 vols.; (e) Pure Mathematics, 16 vols.; (f) Science and Applied Mathematics, 25 vols.; (g) Music, Drawing, and Writing, 8 vols.; (h) Cyclopædias, 38 vols.; (i) Miscellaneous, 4 vols. 4. Barnard's Journal of Education, 24 vols. 5. Blanks, 7 vols. 6. Plans of High School Building. 7. Charts of School Statistics. 8. Photographs of School Regiment.
Educational. Classes 6 *and* 7.

BOSTON UNIVERSITY, Boston, Mass. W. F. Warren, President.
Set of Year Books, and Catalogues.
Educational. Class 8.

BOWDITCH, HENRY P., Boston, Mass.
Statistics on the Growth of Children, 1 vol.
Educational. Class 6.

BOWER, B. P., Cleveland, Ohio.
142. Bower's Sewer Gas Trap: a protection against the escape of Sewer Gas, Back-water, &c.
Near American Engine. Class 66.

BOWER, HENRY, Philadelphia, Pa.
585. Glycerine and Sulphate of Ammonia.
Industrial, C. 2. *Class* 47.

BOWKER, R. R., New York City.
"American Library Journal," vols. 1 and 2.
Educational. Class 6.

BOYD AND CHASE, New York City.
386. Oil Stone for sharpening Artists' and Mechanics' Tools.
Industrial, C. 3. *Class* 43.

BRACHER, T. W., New York City.
293. Ventilators, Air Filters, and Moisteners, &c.
Agricultural, 2. *Class* 27.

BRADLEY, G. W., Hamden, Conn.
Corn.
Agricultural, Central. Class 69.

BRADLEY, JOHN E., Albany, N. Y.
Original Paper: "Plan of Organization of Schools of Secondary Grade."
Educational. Class 7.

BRADLEY, MRS. M., Morrisania, N. Y.
623. Lunch Heater.
Industrial, D. 3. *Class* 27.

BRAND (J. H.) AND CO., Louisville, Ky.
917. Flour of Mustard, and Tobacco.
Agricultural, Central. Classes 46 *and* 74.

BRAUN, FREDERICK, Philadelphia, Pa.
476. Bark Tanned Calf and Kip Skins.
Industrial, C. 1. *Class* 49.

BREWERS' JOURNAL, New York City.
841. "The German and American Brewers' Journal, and Malt and Hop Trades Reporter."
Alimentary, 2. *Class* 9.

BREWSTER AND CO., New York City.
173. Pleasure Carriages, Park Drag, and a Racing Sulky, manufactured from light American Hickory wood.
Industrial, D. 1. *Class* 62.

BREWSTER AND KNOWLTON, Boston, Mass.
Cabinet of Minerals for use in Higher Elementary Schools.
Educational. Class 6.

BRIDGEMAN, E. C., New York City.
Document Envelopes.
Industrial, D. 3. *Class* 10.

BRIERRE (T. H.) AND CO., New Orleans, La.
Sugar and Molasses.
Agricultural, Central. Class 74.

BRILL, J. G., Philadelphia, Pa.
656. Street Railway Car.
Agricultural, 1. *Class* 64.

BROOKS, EZRA, Hartford, Conn.
543. "Hartford" Automatic Pumps, worked by Wind Power or by Steam.
Agricultural, 1. *Class* 54.

BROWN, A. AND F., New York City.
921. Siren, with Fog Trumpet attached.
Agricultural, 3. *Class* 67.

BROWN, B. F., Boston, Mass.
Blacking.
Industrial, C. 1. *Class* 49.

BROWN CALORIC ENGINE CO., New York City.
105. Improved Caloric Engine, Self-feeding.
Agricultural, 3. *Class* 54.

BROWN, E. PARMLY, Flushing, N. Y.
174. Dentistry.
Industrial, B. 2. *Class* 14.

BROWN, HINMAN AND CO., Columbus, Ohio.
376. Garden and Farming Tools.
Industrial, D. 3. *Class* 51.

BROWN AND SHARPE MANUFACTURING CO., Providence, R. I.
542. Machine Tools: Universal and Plain Milling Machines; Grinding, Screw and Tapping Machines; Screw Finishing and Polishing Machines; Cutters, for Gear Wheels and Taps, Reamers, Twist Drills, &c.
Machinery, 2. *Class* 55.

BRUCE (GEORGE) SON AND CO., New York City.
143. Specimen Book of Printing Types.
Machinery, 3. *Class* 60.

BRUSH, VIRGINIA, New York City.
600. Ornamental Screen, painted in water colours and embroidered in Silk Floss.
Industrial, B. 3. *Class* 36.

BUCKNER, S. C., Hopkinsville, Ky.
Tobacco.
Agricultural, Central. *Class* 46.

BULKLEY, DUNTON AND CO., New York City.
Blotting paper.
Industrial, D. 3. *Class* 10.

BULKLEY (J. E.) AND SON, New York City.
646. Sole Leather.
Industrial, C. 1. *Class* 49.

BULLARD (D. A.) AND SONS, Schuylerville, N. Y.
Straw Paper Pulp and Paper made from Rye Straw.
Industrial, D. 3. *Classes* 10 *and* 46.

BURGEOIS, EDMUND, New Orleans, La.
Perique Tobacco.
Agricultural, Central. *Class* 46.

BURNHAM AND MORRILL, Portland, Me.
604. Canned Meats, Salmon, Lobsters, Clams, Corn, &c.
Alimentary, 3. *Classes* 72 *and* 73.

BURNS, Eliza B., New York City.
Books relating to Spelling Reform.
Educational. Class 6.

BURT, E. C., New York City.
365. Ladies' Boots and Shoes.
Industrial, C. 3. *Class* 38.

BUSH (Isidor) and CO., St. Louis, Mo.
Wines.
Agricultural, Central. Class 75.

BUSH, Louis, New Orleans, La.
Moss, for Bedding, Packing, &c.
Agricultural, G. 2. *Class* 46.

BUTLER, DUNN and CO., Boston, Mass.
583. Buff and Split Leather.
Industrial, C. 1. *Class* 49.

BUTLER (J. H.) and CO., Philadelphia, Pa.
1. Text-Books for Elementary Instruction, 29 vols.
2. Two sets of Outline Maps.
Educational. Class 6.

BYRNE, John, M.D., Brooklyn, N. Y.
464. One Electro-Cautery Battery for Surgical uses; also, one for Electro-Motor Power.
Industrial, B. 1. *Class* 14.

CALIFORNIA, STATE OF, California.
Minerals. (*See* Mineral Exhibit of the Pacific Coast.)
Agricultural, Central. Class 43.

CALIFORNIA STATE UNIVERSITY, Berkeley, Cal.
Latest Register, 1 vol.
Educational. Class 8.

CALLERY (JAS.) AND CO., Pittsburg, Pa.
830. Leather, for Belting.
Industrial, C. 1. *Class* 49.

CALVERT SUGAR REFINING CO., Baltimore, Md.
Scum, used for manufacture of fertilizers.
Agricultural, Central. Class 51.

CAMBRIDGE PUBLIC SCHOOLS, Mass. Francis Cogswell, Superintendent.
Scholars' Work, illustrating method of Sentence-Writing, 2 vols.
Educational. Classes 6 *and* 7.

CAMPBELL, HALL AND CO., New York City.
National Safety Paper, for Checks, &c.
Industrial, D. 3. *Class* 10.

CANARY, J. W., Sulivan, Ind.
White Wheat.
Agricultural, Central. Class 69.

CAREW MANUFACTURING CO., Turner's Falls, Mass.
Paper Stock and Paper.
Industrial, C. 3. *Class* 46.

CARMAN, M. A., Canandaigua, N. Y.
369. Anatharin: a Mouth Wash and Tooth Powder.
Industrial, B. 2. *Class* 14.

CARR, JAS., New York City.
472. Pottery and Parian Ware.
Industrial, D. 2. *Class* 20.

CARTER, DINSMORE, AND CO., New York City.
221. Writing and Copying Inks, and Mucilage.
Industrial, B. 3. *Class* 10.

CASE BROTHERS, South Manchester, Conn.
Press Boards, for Printers' use.
Industrial, D. 3. *Class* 10.

CASE (J. I.) AND CO., Racine, Wis.
612. Harvesting, Threshing, and Cleaning Machines.
Agricultural, 1. *Class* 76.

CENTENNIAL PHOTOGRAPH CO., Philadelphia, Pa.
145. Photographs of the Centennial Exhibition, 1876.
Industrial, B. 2. *Class* 12.

CEREALS MANUFACTURING CO., New York City.
510. Prepared Cereals.
Alimentary, 3. *Class* 69.

CHADBURN AND COLDWELL, Newburgh, N. Y.
420. Lawn Mowing Machines, for Hand or Horse Power. Automatic Beef Cutters.
Agricultural, 2. *Classes* 52 *and* 76.

CHAFFANJON, C., Hudson City, N. J.
479. Silk Serges, Satins, and Dress Silks.
Industrial, B. 2. *Class* 34.

CHANDLER, JOHN R., Vincennes, Ind.
White Corn.
Agricultural, Central. *Class* 69.

CHAPIN, J. S., New York City.
998. A Metallic Lock Faucet, for drawing liquids from Casks, Cisterns, &c.
Machinery, 1. *Class* 43.

CHARD, R. J., New York City.
961. Lubricine and Automatic Lubricating Cups.
At the American Engine. Classes 47 *and* 54.

CHARLESTOWN PUBLIC SCHOOLS, Indiana.
Reports, and other Printed Matter.
Educational. Class 6.

CHATFIELD AND GOULD, New York City.
643. Leather.
Industrial, C. 1. *Class* 49.

CHATFIELD AND WOODS, Cincinnati, Ohio.
Paper Bags, made by Machinery.
Industrial, D. 3. *Class* 10.

CHESEBROUGH MANUFACTURING CO., New York City.
117. Vaseline: a concentrated Essence of Petroleum, used for Medical, Pharmaceutical, and Toilet purposes, in different forms: as Pomade Vaseline, Cold Cream, Camphor Ice, Soap, Camphorated Vaseline, and Veterinary Vaseline.
Industrial, C. 2. *Class* 47.

CHETOPA PUBLIC SCHOOLS, Kansas.
Scholars' Work, 1 Map.
Educational. Class 6.

CHICAGO PUBLIC SCHOOLS, Illinois. Duane Doty, Superintendent.
1. Scholars' Work: (a) Entire Grade Work, of Eighth Grade, 3 vols.; (b) Entire Class Work, 44 vols.; (c) Selected Papers in English, German and Drawing, 26 vols.; (d) Special Work, 16 vols. 2. Set of School Blanks, 1 portfolio.
Educational. Classes 6 *and* 7.

CINCINNATI PUBLIC SCHOOLS, Ohio. J. B. Peaslee, Superintendent.
Scholars' Work: (a) Penmanship; Normal, High, Intermediate and District Schools, 13 vols.; (b) District Schools, various subjects, 25 vols.; (c) Intermediate Schools, various subjects, 24 vols.; (d) High Schools, various subjects, 7 vols.; (e) Normal School, 1 vol.
Educational. Classes 6 *and* 7.

CLAPP (B. P.) AND CO., Pawtucket, R. I.
Woods, and their products, obtained from them by dry distillation.
Agricultural, Central. Class 44.

CLARDY, J. D., Newstead, Ky.
838. Leaf Tobacco.
Agricultural, Central. Class 46.

CLARK, GEORGE, New York City.
966. Bitters.
Agricultural, 3. *Class* 75.

CLARK AND MAYNARD, New York City.
Anderson's series of School Histories, and various other Text-Books.
Educational. Classes 6 *and* 7.

CLARKE, E. B., Middlefield, Conn.
Agricultural Products.
Agricultural, Central. Class 69.

CLARKE, JAMES, Louisville, Ky.
832. Leaf Tobacco.
Agricultural, Central. Class 46.

CLARKE (M. H.) AND BRO., Clarksville, Tenn.
Tobacco.
Agricultural, Central. Class 46.

CLARKE (ROBERT) AND CO., Cincinnati, Ohio.
"American State Universities," 1 vol.
Educational. Class 8.

CLAUSEN (H.) AND SON, New York City.
962. Bottled Beer.
Agricultural, 3. *Class* 75.

CLAXTON, REMSEN AND HAFFELFINGER, Philadelphia, Pa.
696. Scientific Text-Books for Elementary and Secondary Instruction, 25 vols.
Educational and Industrial, B. 3. *Classes* 6, 7, *and* 9.

CLEVELAND PAPER BOX MACHINE CO., New York City.
175. Paper Boxes.
Industrial, D. 3. *Class* 10.

CLOSSER (J. A.) AND CO., Indianapolis, Ind.
Millet Seed, Corn, Wheat, and products manufactured from them.
Agricultural, Central. Class 69.

CLOUGH AND WARREN ORGAN CO., Detroit, Mich.
10. Cabinet Reed Organs.
Industrial, B. 3. *Class* 13.

CLOUGH AND WILLIAMSON, Newark, N. J.
990. Steel Wire Screws, and Machines for making the same.
Machinery, 2. *Class* 54.

COATES (A. W.) AND CO., Alliance, Ohio.
778. Hay and Grain Rake ; Lock Lever.
Agricultural, 3. *Class* 76.

COCKRILL, M. S., Nashville, Tenn.
Merino Wool.
Agricultural, Central. Class 46.

COFFIN, ALTEMUS AND CO., Philadelphia, Pa.
412. Cotton Goods.
Industrial, B. 1. *Class* 30.

COLEMAN, W. H., Concord, N. H.
Wheat and Flour.
Agricultural, Central. Class 69.

COLLENDER, H. W., New York City.
61. Billiard Table, with Markers, Cue Racks, &c.
Industrial, B. 3. *Class* 17.

COLLINS AND BROTHER, New York City.
Text-Books for Elementary, Secondary, and Superior Instruction.
Educational. Classes 6, 7, *and* 8.

COLLINS AND CO., Hartford, Conn.
274. Gang Ploughs, Axes, Hoes, and Edge Tools.
Agricultural, 3, *and Industrial, D.* 1. *Classes* 43 *and* 76.

COLLINS, Geo. P., Orange County, N. C.
Seeds.
Agricultural, Central. Class 69.

COLLINS (Sheldon) and CO., New York City.
Black Ink.
Machinery, 3. *Class* 60.

COLNE, J. P., Washington, D. C.
Glass, Marble and Optical Lenses, cut by machinery.
Class 19.

COLT'S PATENT FIRE ARMS CO., Hartford, Conn.
254. Guns and Pistols.
Machinery, 2. *Class* 40.

COMPTON, D. A., Hawley, Pa.
Corn in the Ear.
Agricultural, Central. Class 69.

CONGER and KELLY, New Orleans, La.
Sugar.
Agricultural, Central. Class 74.

CONNECTICUT BOARD OF AGRICULTURE, Hartford, Conn. P. M. Augur, Secretary of State Board of Agriculture, Middlefield.
Oats, Corn, Wheat, Rye, Beans, &c. Case of 18 ears of Corn, the product of 3 grains. Leaf Tobacco.
Agricultural, Central. Classes 46 *and* 69.

CONNECTICUT STATE DEPARTMENT OF PUBLIC INSTRUCTION, Connecticut. B. G. Northrop, Secretary of State Board of Education, New Haven.
Set of Reports of the Board of Education, 12 vols.
Educational. Class 6.

CONNERS (James) SONS, New York City.
One Complete outfit of Plain and Ornamental Types, Borders, Rules, &c.
American Model Printing Office, Machinery, 3. *Class* 60.

COOK, Geo. H., New Brunswick, N. J.
Greensand Marls.
Agricultural, Central. Class 51.

COOK (J.) AND CO., Portland, Oregon.
Canned Salmon.
Agricultural, Central. Class 72.

COOK, MRS. M. A., San Francisco, Cal.
Natural Flowers, chemically preserved.
Agricultural, Central. Class 29.

COOKE, GEO. A., Philadelphia, Pa.
Medicated Herbaline Catarrh Cigarettes.
Agricultural, 3. *Class* 47.

COOPER UNION, New York. Peter Cooper, President.
1. Drawings by pupils in the Day and Evening Classes.
2. Engraved view of the building.
Educational. Class 7.

CORBETT, G. W., Penden Co., N. C.
Corn.
Agricultural, Central. Class 69.

CORBETT, J. R., Bladen Co., N. C.
Corn.
Agricultural, Central. Class 69.

CORPENNING, A. J., Caldwell, N. C.
Sorghum Syrup. Grains and Wines.
Agricultural, Central. Classes 69, 74, *and* 75.

CORTLAND WAGGON MANUFACTURING CO., Cortland, New York ~~City~~.
108. Platform Spring Waggons, for pleasure or business use.
Agricultural. Class 62.

COSTON, MARTHA J., Washington, D. C.
786. Coston's Night Signals.
Industrial, B. 1. *Class* 65.

COWPERTHWAIT AND CO., Philadelphia, Pa.
1. Series of Text-Books for Elementary and Secondary Instruction.
2. Set of Charts for teaching the first steps in reading.
Educational. Classes 6 *and* 7.

CRANE BROS., Westfield, Mass.
620. Paper Trunk; Ledger Papers, machine and hand-made. All-Linen Papers; Paper Baskets and Belting.
Industrial, B. 2. *Class* 10.

CRANE BROS. MANUFACTURING CO., Chicago, Ill.
263. Malleable Iron Fittings, and Brass Valves, Cocks, &c., for Gas, Steam, and Water.
Industrial, D. 3. *Class* 27.

CRANE AND CO., Dalton, Mass.
780. Paper Stock and Bond Papers.
Industrial, B. 2. *Classes* 10 *and* 46.

CRAWFORD (L.) AND CO., Chase's Lake, N. Y.
Hemlock Bark, and Extract.
Agricultural, Central. Class 44.

CRESSON, GEO. V., Philadelphia, Pa.
857. Shaftings, Pulleys, Couplings, &c., furnished free of cost for use of Commission, and for exhibition.
Machinery, 2. *Class* 54.

CROZIER, L. S., Williamsburg, Kansas.
697. Silk Cocoons, Eggs of Silk Worms, and Reeled Silk.
Agricultural, Central. Class 34.

CRUTCHFIELD, TOM, Chattanooga, Tenn.
Wool.
Agricultural, Central. Class 46.

CUMMINGS AND LOCKWOOD, New York City.
225. Curled Hair, Neat's Foot Oil, Bones, &c.
Agricultural, 3. *Classes* 45, 46, *and* 51.

CURTIS, GEO. H. W., New York City.
Specimens of Cutting, and Designs for fine shoes and fine machine needle-work.
Machinery, E. 1. *Class* 36.

CURTIS AND PARTRIDGE, New York City.
Gentlemen's Boots and Shoes.
Machinery, E. 1. *Class* 36.

CURTIS AND SWITZER, Chicago, Ill.
Creamery Butter.
Agricultural, Central. Class 71.

DANNER, JOHN, Canton, Ohio.
Revolving Book Case.
Educational. Class 6.

DARLING, BROWN AND SHARPE, Providence, R. I.

654. U. S. standard Rules; patent hardened Cast Steel Try Squares; the American standard Wire Gauge, and a variety of Tools for accurate measurements.
Industrial, D. 3. *Class* 15.

DAUGHADAY (J. W.) AND CO., Philadelphia, Pa.

350. Job Printing Presses, Hand and Foot Power, adapted to every class of fine job work, and general mercantile printing.
Machinery, 3. *Class* 60.

DAVEY (W. O.) AND SONS, Jersey City, N. J.

Tar Mill Boards, for Book Binders' and Trunk Makers use.
Industrial, D. 3. *Class* 10.

DAVID, J. A., New York City.

Universal Stencil Plate: To trace with a single plate all the letters of the alphabet (capital and small), all the numerals, all the signs of punctuation, as well as an innumerable variety of ornaments, in a correct and geometrical manner.
Industrial, B. 3. *Class* 6.

DAVIS, BARDEEN AND CO., Syracuse, N. Y.

1. Examination Questions of the Regents of the State of New York, 10 vols. 2. Educational Publications, 10 vols. 3. Educational Blanks.
Educational, and Industrial, B. 3. *Classes* 6 *and* 9.

DAVIS, Geo. E., Saccarappa, Me.
Leather Boards, for Boot and Shoemakers' use.
Industrial, D. 3. *Class* 10.

DAVIS (John G.) and SON, Philadelphia, Pa.
754. Wheel Stock: Spokes, Rims, and Plough Handles.
Agricultural, Central. Class 62.

DAVIS, J. W., Washington, D. C.
432. The Davis Portable Elevating Telescopic Signal Tower, mounted on wheels, for army use.
Industrial, D. 2. *Class* 66.

DAVIS LEVEL and TOOL CO., Springfield, Mass.
Levels.
Industrial, D. 3. *Class* 59.

DAVIS (Robert S.) and CO., Boston, Mass.
Greenleaf's Mathematical Series, and Miscellaneous Publications, 25 vols.
Educational. Class 6.

DAVIS, Wm. J., Philadelphia, Pa.
288. "Reliance Anchor," non-fouling, and self-canting.
Industrial, D. 3. *Class* 67.

DAY, AUSTIN G., New York City.
177. Kerite Insulated Telegraph Wire, and Cables. Kerite: a substitute for India Rubber Clothing. Articles manufactured from Kerite and India Rubber.
Industrial, C. 1. *Class* 47.

DAY, B. H., Underhill, Vt.
The Powell Broadcast Seed Sower and Grain Coverer.
Agricultural, Central. Class 76.

DEDERICH (P. K.) and CO., Albany, N. Y.
467. Hay Press, Horse Power, Bale Tie Machine.
Agricultural, 3. *Class* 76.

DEERE and CO., Moline, Ill.
180. Ploughs (Gang and Sulky).
Agricultural, 3. *Class* 76.

DE GAS, Rene, New Orleans, La.
Cotton.
Agricultural, Central. *Class* 46.

DEITZ, Geo. A., Sacramento, Cal.
Raisins.
Agricultural, Central. *Class* 73.

DE LAMATER (C. H.) and CO., New York City.
16. D. L. Kennedy's Patent Concentrated Power Shearing and Punching Machines.
Machinery, 2. *Class* 55.

DELAWARE STATE DEPARTMENT OF PUBLIC INSTRUCTION, J. H. Grous, Superintendent, Smyrna.
Annual Report, 1 vol., with Statistics of 1877.
Educational. *Class* 6.

DEMOREST, Mr. and Mrs. JENNINGS, New York City.
181. Fashion Plates, and Dress Models.
Industrial, C. 3. *Class* 38.

DE MORTIE, M., Burkeville, Va.
Oil of Sassafras.
Agricultural, Central. *Class* 47.

DENVER PUBLIC SCHOOLS, Colorado.
Set of City School Reports, 3 vols.
Educational. *Class* 6.

DEVENS, Henry, Brattleboro, Vt.
452. Automatic Screw Making Machine.
Machinery, 3. *Class* 55.

DIAMOND MILLS PAPER CO., Millburn, N. J.
Medicated Closet Paper.
Industrial, D. 3. *Class* 10.

DICKEY, A. P., Racine, Wis.
820. Fan for separating Grain and Chaff.
Agricultural, Central. *Class* 76.

DILL, Joseph T., Charleston, S. C.
Sea Island Cotton.
Agricultural, Central. *Class* 46.

DISSTON (HENRY) AND SONS, Philadelphia, Pa.
13. Saws and Saw Tools, Cane Knives, Tools for Carpenters, Plasterers, &c.
Industrial, D. 2. *Class* 43.

DIXON (JOSEPH) CRUCIBLE CO., Jersey City, N. J.
179. Lumber Pencils, Lubricating Plumbago, Founders' Perfect Wash, Carburet of Iron, Stove Polish, Pencils, and Crucibles.
Industrial, B. 3. *Classes* 10 *and* 43.

DODD, JOHN, Dayton, Ohio.
Horse Hay Rake, Hollingsworth's Patent.
Agricultural, 3. *Class* 76.

DOLGE, ALFRED, New York City.
146. Piano Felts, and Sounding-Boards.
Industrial, D. 3. *Class* 13.

DOREMUS, PETER C., New York City.
109. Automatic Sofa Spring Bed and Lounge.
Industrial, B. 1. *Class* 17.

DORMAN MANUFACTURING CO., New York City.
287. Ja-se-po-ri Ware. (Bamboo.)
Industrial, D. 2. *Class* 29.

DOTY, H. H., Washington, D. C.
149. Lamp for Lighthouses.
Industrial, D. 3. *Class* 27.

DOUGHERTY, ANDREW, New York City.
281. Playing Cards.
Industrial, C. 1. *Class* 10.

DOUGLAS, W. AND B., Middletown, Conn.
425. Pumps of all descriptions, both hand and power; for house, factory, yard, or farm use. Hydraulic Rams, Garden Engines, Drive Well Pumps, and Points, Grindstone Frames, and Trimmings, Yard Hydrants, and Street Washers.
Agricultural, 3. *Class* 54.

DOUGLASS AXE MANUFACTURING CO., Boston.
11. Axes, Hatchets, &c.
Industrial, D. 1. *Class* 43.

DOVER STAMPING CO., Boston.
760. "Dover" Egg Beater.
Agricultural, 3. *Class* 43.

DRISCOLL, T. D., Well Water, Va.
Oil of Sassafras.
Agricultural, Central. Class 47.

DRYDOPPLE, Wm., Philadelphia, Pa.
584. Borax Soap.
Industrial, C. 2. *Class* 49.

DUBRUL (N.) and CO., Cincinnati, Ohio.
Cigars and Cigar Moulds.
Agricultural, 3. *Class* 51.

DUBUQUE, BOARD OF EDUCATION, Iowa. Thomas Hardie, Secretary.
Last School Report, 1 vol.
Educational. Class 6.

DUDLEY, P. H., New York City.
73. Diagrams, mounted on Rolls, showing power required to move railway trains.
Industrial, C. 1. *Class* 64.

DUKE, B. L., Durham, N. C.
Smoking Tobacco.
Agricultural, Central. Class 46.

DUNAN, W. S., Baltimore, Md.
Ammonia, Bone Phosphate, and other Raw Materials employed in manufacture of fertilizers.
Agricultural, Central. Class 51.

DUNBAR (G. W.) and SONS, New Orleans, La.
Canned Goods; Syrups in Cans.
Agricultural, Central and 1. *Classes* 62 *and* 73.

DUNNELL MANUFACTURING CO., Pawtucket, R. I.
449. Printed Calicoes.
Industrial, B. 2. *Class* 30.

DURBAN, CHAS. L., Mesillwally, Cal.
Raisins.
Agricultural, Central. *Class* 73.

EAGLE MOWING AND REAPING MACHINE CO., Albany, N. Y. Wm. Anson Wood, President.

666. Mowers, Reapers, and Binders.

Agricultural, 1. *Class* 76.

EAGLESON AND DEVEAU, New York City.

Marbles.

Outside, between Machine Gallery and Agricultural Hall. Class 43.

ECLIPSE WINDMILL (A. J. COCORAN), New York.

1005. Improved Solid Wheel, Self-Regulating Windmill.

Outside Agricultural Hall, South Entrance. Class 76.

EDGERTON, N. H., Philadelphia, Pa.

1. Set of Chemical Apparatus, suitable for Higher Elementary Schools.
2. Stereopticon and Transparencies for Instruction in Natural History.

Educational. Class 6.

EDISON, THOS. A., Menlo Park, N. J.

67. Phonograph, Quadruplex Electric Pen, Speaking Telephone, Musical Telephone, Pressure Relay, and Electromotograph.

Industrial, D. 1. *Class* 65.

EDSON, MARMONT B., New York City.

438. Automatic Recording and Alarm Gauge, for recording Revolutions and Pressure of Steam, Water, and other Fluids, giving time of variations, and operating a Gong Alarm.

Attached to Main Engine, Machinery Section. Class 54.

EDWARDS, V. N., Woods Hole, Mass.
Rock and Gulf Weeds.
Agricultural, Central. Class 51.

ELASTIC CHAIR TIP COMPANY, Abington, Mass.
Specimen Chair with Elastic Tips.
Educational. Class 6.

ELDREDGE AND BROTHER, Philadelphia, Pa.
Text-Books, for Schools of different grades.
Educational. Class 6.

ELLCOTE, J. R., Rochester, Ind.
Red Wheat.
Agricultural, Central. Class 69.

ELLIOTT, MRS. S. A., Oxford, N. C.
Silk Reel, for use in factories and in the household.
Machinery, 3. *Class* 56.

ENTERPRISE MILLS, Augusta, Ga.
Cotton Fabrics.
Industrial, B. 2. *Class* 30.

ERIE PRESERVING CO., Buffalo and New York.
64. Canned Goods: Fruits and Vegetables in Tin. Jams and Jellies in Tin and Glass. Sausage Meat in Tin.
Alimentary 3. *Classes* 72 *and* 73.

ERVIEN, CHARLES W., Philadelphia, Pa.
738. Horizontal and Vertical Non-Condensing Steam Engine, sent for use of Commission.
Agricultural, 1. *Class* 54.

ESTEY (J.) AND CO., Brattleboro, Vt.
489. Reed Organs.
Industrial, B. 3. *Class* 13.

EVANS, DR. THOMAS W., Paris, France.
Ambulance Material: 1. A model of Hospital Car, with beds, dispensary, linen, wine, and water-closets, systems of ventilation and heating, &c. (patent). 2. Evans' Ambulance Waggon. 3. Evans' Tent with improved system of heating. 4. Model of Field Hospi-

tal. 5. Medicine Waggon. 6. Amputating Table, folding. 7. Model of General Hospital. 8. Model of Small Hospital. 9. Field Medicine Case. 10. Car for Hospital Table. 11. Artificial Limbs. 12. Stretchers. 13. Sets of Splints. 14. Perforated Zinc Splints. 15. Crutches, with swing. 16. Knapsack, forming bed, tent, and stretcher. 17. An Invalid Elevator. 18. Knife and Fork combined, for the use of those having but one hand. 19. Hospital Mess Chest. 20. Staff Surgeons' Capital Operating set.
Outside, near Machinery Gallery. Class 14.

EVANS (J. P.) AND CO., Indianapolis, Ind.
Flax Seed. Linseed Oil and Meal.
Agricultural, Central. Classes 47 *and* 69.

EVANSVILLE PUBLIC SCHOOLS, Indiana.
Scholars' Work, 1st to 8th School Years, 13 vols.
Educational. Class 6.

EXTON, ADAM AND CO., Trenton, N. J.
Unfermented Crackers and Biscuits.
Alimentary, 3. *Class* 70.

FAIRBANKS (E. AND T.) AND CO., St. Johnsbury, Vt.

192. Railway Track Scales. Scales for weighing cattle, and for various farm uses. Iron Scales for foundries, rolling mills, &c. Metric Scales and Weights for use in schools, with case. Scales for Druggists' use. Newspaper and letter scales. Cotton Beam Frame and Scales, and Weighing Machines for general use.

Agricultural, 3. *Classes* 6, 10, 15, 50, 54, 64, *and* 76.

FAIRBANKS (N. K.) AND CO., Chicago, Ill.

183. Refined and Leaf Lard.

Alimentary, 3. *Class* 71.

FAIRCHILD (LE ROY W.) AND CO., New York.

22. Gold Pens, Gold and Silver Pencil Cases, &c.

Industrial, *C.* 1. *Class* 10.

FALES, THOS. J. (Agent), New York.

251. Baxter Portable Steam Engines, of 2, 4, 8, and 10-horse power. One 6-horse power Engine for use of Commission.

Machinery, 1 *and* 2. *Class* 54.

FALLER, GEO. J., Philadelphia, Pa.

278. Sewing Machine Oil.

Industrial, *C.* 2. *Class* 47.

FALL MOUNTAIN PAPER CO., Bellows Falls, Vt.

News, Printing, and Double Manilla Papers.

Industrial, *D.* 3. *Class* 10.

FARMER, LITTLE AND CO., New York.
Script Types, the capital letters of which form complete Upper Case fonts respectively, for three styles of Lower Case letters. Also, fonts of other Modern Script faces.
American Model Printing Office, Machinery, 3. *Class* 60.

FARMERS' FRIEND MANUFACTURING CO., Dayton, Ohio.
19. Grain Drills.
Agricultural, 3. *Class* 76.

FARQUHAR, A. B., York, Pa.
423. Threshing Machine, and Horse Power.
Agricultural, 1. *Class* 76.

FARRINGTON, H. J., New York City.
Bedsteads.
Industrial, B. 1. *Class* 17.

FAY (J. A.) AND CO., Cincinnati, Ohio.
240. Machines for reduction of Lumber and manufacture of Furniture. A collection of seventeen machines, for cutting and manufacturing wood into shapes for house-building, furniture, waggon and carriage work, &c.
Machinery, 3. *Class* 59.

FICK AND CHASE, Baltimore, Md.
Pickled Oysters.
Alimentary, 3. *Class* 72.

FICKLEN (J. B.) AND CO., Fredericksburg, Va.
Flour, Corn, and Corn Meal, Wheat and Maize.
Agricultural, Central. *Class* 69.

FIEGENSPAN AND CO., New York City.
Lager Beer.
Agricultural, Central. *Class* 75.

FIELD (A.) AND SONS, Taunton, Mass.
20. Tacks, Nails, &c.
Industrial, D. 3. *Class* 43.

FISHER (S. E.) AND CO., North Attleboro', Mass.
Gilt Jewellery.
Industrial, C. 2. *Class* 39.

FLANDERS, L. B., Philadelphia, Pa.
286. Rotary Valve-seat Planing Machine.
Machinery, 3. *Class* 55.

FLETCHER MANUFACTURING CO., Providence, R. I.
663. Shoe Strings, Kerosene, Lamp and Stove Wicks.
Industrial, C. 3. *Classes* 27 and 37.

FOERSTER, J., New Orleans, La.
Rice.
Agricultural, Central. Class 69.

FORBES, EDWIN, New York City.
920. Etchings on Copper. Life Studies of the great Army of the Union.
Industrial, B. 2. *Class* 9.

FOREMAN, JOHN A., Muscogee, Indian Terr.
Field and Sugar Corn. Corn Meal. Hominy and Grits.
Agricultural, Central. Class 69.

FORESTDALE MANUFACTURING CO., Slatersville, R. I.
449. Bleached Cotton Goods.
Industrial, B. 2. *Class* 30.

FORSTALL AND LAROSE, New Orleans, La.
Pine Tar, Spirits of Turpentine, Rosin, &c.
Agricultural, Central. Class 47.

FRANTZ (D.) AND SON, Louisville, Ky.
702. Leather.
Industrial, C. 1. *Class* 49.

FRAZER LUBRICATOR CO., New York City.
217. Axle Grease.
Agricultural. Class 47.

FREELAND, ROBT., South Boston, Mass.
664. Laundry, Toilet, and Manufacturers' Soap.
Industrial, C. 2. *Class* 47.

FRISHMUTH BROS. AND CO., Philadelphia, Pa.
Manufactured Tobacco.
Agricultural, Central. Class 46.

FRITZSCHE BROS., New York City.
319. Essential Oils.
Industrial, C. 2. *Class* 47.

FUNCK, JOSEPH, Staten Island, N. Y.
718. Lamps for Lighthouse and Domestic use.
Industrial, D. 3. *Class* 27.

GAENSSLER BROS., Gowanda, N. Y.
410. Sole Leather.
Industrial, C. 1. *Class* 49.

GAFF, RUSH AND THOMAS, Columbus, Ind.
Hominy, Grits, Pearl Meal, Corn Flour, Feed Meal, Corn Meal, Yellow Corn.
Agricultural, Central. *Class* 69.

GAINES, S. M., Cambridge, Mass.
Gaines' Chemical Alphabet.
Educational. *Class* 6.

GALE MANUFACTURING CO., Albion, Mich.
294. Hay, Rake, and Chilled Iron Plough.
Agricultural, 3. *Class* 76.

GALLUP, CLARK AND CO., Indianapolis, Ind.
Barley and Oats.
Agricultural, Central. *Class* 69.

GALLY, MERRITT, New York City.
252. Power Printing and Embossing Presses.
Machinery, 2 and 3. *Class* 60.

GARDNER AND CO., New York City.
149. Perforated Veneer Seats, for various kinds of Chairs, Settees, &c. Reversible Railway Seats. Sofas and Stools.
Industrial, B. 1. *Class* 17.

GARRETT (C. W.) AND CO., Halifax Co., N. C.
Wines.
Agricultural, Central. *Class* 75.

GATLING GUN CO., Hartford, Conn.
490. 1 Gatling Gun, mounted on Tripod.
1 Ten Barrel 1-inch Gatling Gun.
1 Medium-sized Gatling Gun on Field Carriage.
Industrial, D. 2. *Class* 68.

GAY (EDWARD J.) AND CO., New Orleans, La.
Sugar, Molasses, and Syrup.
Agricultural, Central. Class 74.

GAY, STEPHEN, New Orleans, La.
Medicated Syrup.
Agricultural, Central. Class 74.

GEBBIE AND BARRIE, Philadelphia.
329. Books and Publications.
Industrial, B. 3. *Class* 9.

GEORGIA STATE GEOLOGICAL BUREAU, Atlanta, Ga.
Minerals of Georgia.
Agricultural, 3. *Class* 43.

GIBSONS (JOHN) SONS AND CO., Pittsburgh, Pa.
Whiskey.
Agricultural, Central. Class 75.

GILMAN AND CO., Boston, Mass.
Series of writing books.
Educational. Class 6.

GINN AND HEATH, Boston, Mass.
1. Text-Books for Elementary and Secondary Instruction; 2. Music Books and Charts by L. W. Mason.
Educational. Classes 6 *and* 7.

GLEN COVE STARCH MANUFACTURING CO., Glen Cove, N. Y.
Starch and Maizena.
Alimentary, 3. *Class* 69.

GLOBE HORSE-SHOE NAIL CO., Boston.
748. Horse-Shoe Nails, made by Machinery from Cold Rolled Iron.
Agricultural 3. *Class* 43.

GODDARD, Curtis, Alliance, Ohio.
763. The little "Speedy" Corn Sheller.
Agricultural 3. *Class* 43.

GODDARD, N. C., Boston, Mass.
Adams' Synchronological Chart.
Educational. *Class* 6.

GOFF, Lyman B., Pawtucket, R. I.
552. Package Carrier.
Industrial, B. 3. *Class* 41.

GOGIN, C. L., New Orleans, La.
Ramie Fibre.
Agricultural, Central. *Class* 46.

GOLD, T. S., West Cornwall, Conn.
Buckwheat.
Agricultural, Central. *Class* 69.

GOODWIN, P. M., New Orleans, La.
Eureka Yeast Powder.
Agricultural, Central. *Class* 74.

GOODYEAR, Harry, New York City.
184. The Goodyear, Metallic Shingle.
Machinery, 1. *Class* 66.

GOODYEAR, Henry B., New York City.
184. Machines, for Making Boots and Shoes.
Machinery, 1. *Class* 58.

GORE and GORE, Wilmington, N. C.
Peanuts.
Agricultural, Central. *Class* 73.

GOSSAMER RUBBER CLOTHING CO., Boston, Mass.
659. Rubber Clothing, Water and Heat Proof.
Industrial, C. 3. *Class* 38.

GOULDS' (M.) SONS, New York City.
465. Stair Rods, Dog Collars, Stair Plates, Curtain Poles, and Trunk Hardware.
Industrial, D. 3. *Class* 43.

GRAHAM, EMLEN AND PASSMORE, Philadelphia.
Philadelphia Lawn Mower.
Agricultural, 3. *Class* 76.

GRANDPERRET, LOUIS LÉON, New York City.
134. Mechanical Motor, and Toy Watch.
Industrial, D. 2. *Class* 42.

GRAY, ELISHA, Chicago, Ill.
818. Apparatus for transmitting Musical and other sounds, by Telegraph, including the Multiple Acoustic Telegraph, Way Duplex Telegraph, the Musical Telephone, and the Speaking Telephone.
Industrial, C. 1. *Class* 65.

GREEN, CICERO, Craven Co., N. C.
Whiskey.
Agricultural, Central. *Class* 75.

GREEN, DAVID C., New York City.
494. Feed Water Heater.
Machinery, 1. *Class* 54.

GREENE (S. H.) AND SONS, Riverpoint Post Office, R. I.
412. Calicoes, Handkerchiefs, &c.
Industrial, B. 1. *Class* 30.

GREENE (WM. C.) AND CO., Providence, R. I.
688. Wire and Coral Jewellery.
Industrial, C. 2. *Class* 39.

GREEN SERPENTINE MARBLE CO., Wilmington, Del.
Maryland Serpentine, or "Verde Antique" Marble.
Agricultural, Central. *Class* 43.

GREGG, HENRY, Marion, Ind.
White Rye.
Agricultural, Central. *Class* 69.

GREGG, WM. L., Philadelphia.
317. Brick Making Machine (Triple Pressure), and specimen Bricks.
Agricultural, 1. *Class* 59.

GROCERS' PACKING CO., Boston, Mass.
Canned Salt Fish and Vegetables.
Agricultural, 3. *Classes* 72 *and* 73.

GROETZINGER, A. AND J., Alleghany, Pa.
863. Oak Sole Leather.
Industrial, *C.* 1. *Class* 49.

GROSVENOR, WM. H., JR., Providence, R. I.
412. Cotton Goods.
Industrial, *B.* 1. *Class* 30.

GROTON MANUFACTURING CO., Providence, R. I.
412. Bleached Cotton Goods.
Industrial, *B.* *Class* 30.

GUBELMAN, THEO., Jersey City, N. J.
345. Photographic Portraits.
Industrial, *B.* 1. *Class* 12.

GÜCKERHEIMER AND BROS., Pittsburgh, Pa.
Whiskey.
Agricultural, *Central.* *Class* 75.

GUERIN, FITZ. W., St. Louis, Mo.
Photographs from Life in imitation of Statuary.
Industrial, *B.* 2. *Class* 12.

GURNEY, J., New York City.
435. Coloured and Enamelled Photographs, or Paintings, imperishable, and require no glass for protection. Process Patented.
Industrial, *B.* 2. *Class* 12.

GUTEKUNST, F., Philadelphia.
133. Artistic Photographic Pictures.
Industrial, *B.* 3. *Class* 12.

GUTTA PERCHA RUBBER MANUFACTURING CO., New York City.
1006. Carbolized Rubber Hose, as used in connection with Fire Engines, or for general use.
Machinery, 1. *Class* 67.

HAGSTOZ AND THORPE, Philadelphia, Pa.
592. Watch Cases plated with Gold on composition metal. Russell's Parallel Pliers.
Industrial C. 2, *and D.* 3. *Classes* 26 *and* 43.

HAKE, PH., New York.
Cards, for Printers and Engravers.
Industrial, D. 3. *Class* 10.

HALE AND PARSHALL, Lyons, N. Y.
185. Essential Oils: Peppermint, Wintergreen, &c.
Industrial, C. 2. *Class* 47.

HALLER, ELLA, Philadelphia, Pa.
223, 224. Hydro-Platinum, self-lighting Lamp, non-explosive. Preserved Fruits, and Butter and Lard in Jars.
Alimentary, 3. *Classes* 27, 71, *and* 73.

HALLOWAY, THOS., Pomaria, S. C.
Seed Cotton.
Agricultural, Central. Class 46.

HAMILTON COLLEGE, Clinton, N. Y.
Views about the College, in a portfolio.
Educational. Class 7.

HAMMETT (J. L.) AND CO., Boston, Mass.
1. Publications for Elementary Education, 5 vols.
2. Heliotellus, Lunatellus, Planispheres, and other apparatus.
Educational. Classes 6 *and* 7.

HAMPTON NORMAL AND AGRICULTURAL INSTITUTE, Hampton, Virginia. S. C. Armstrong, Principal.

1. Scholars' Work: (*a*) Examination Exercises, 8 vols.; (*b*) Specimens of Sewing, Knitting, and Printing; (*c*) Models of Boats and Furniture, and carved imitations of Marine Animals. 2. Views of the School: (*a*) Oil Painting of the Buildings; (*b*) Fifty-seven Photographs and Plans. 3. Publications: (*a*) "Southern Workman," 1877; (*b*) "Hampton and its Students," 1 vol.; (*c*) Cabin and Plantation Songs. 4. Blanks and Regulations.

Educational. Class 6.

HANCE BROS. AND WHITE, Philadelphia.

24. Chemical and Pharmaceutical Preparations.

Industrial, C. 2. *Class* 47.

HANCOCK INSPIRATOR CO., Boston.

267. An Injector for feeding Water to Boilers, and for elevating Water, having a "lifting" capacity of 25 ft.

Agricultural, 1. *Class* 54.

HANKS, HENRY G., San Francisco, Cal.

Minerals. (See Pacific Coast Mineral exhibit.)

Agricultural, 3. *Class* 43.

HARDRICH (H. G.) AND SONS, Philadelphia.

782. Harness and Saddlery in general, and Harness Oil.

Industrial, C. 1. *Classes* 47 *and* 63.

HARPER AND BROTHERS, New York City.

677. Text-Books for Elementary and Secondary Instruction, 194 vols. Miscellaneous Books and Periodicals.

Educational and Industrial, B. 3. *Classes* 6, 7, *and* 9.

HARRINGTON (EDWIN) AND SON, Philadelphia.

781. Screw Hoisting Machines for exhibition, and for use of Commission.

Machinery, 1. *Class* 54.

HART, Mrs. N., Ninety-six, S. C.
Wreath of Seeds.
Agricultural, Central. Class 69.

HARTMAN, P., New York City.
710. Filigree Silver Jewellery.
Industrial, C. 2. *Class* 39.

HARTSHORN, Stewart, New York City; Manufactory, East Newark, N. J.
728. Window Shade Rollers.
Industrial, B. 2. *Class* 18.

HARVARD UNIVERSITY, Cambridge, Mass. Charles W. Eliot, President.
1. Quincy's "History of Harvard University," 2 vols. 2. Annual Reports on Harvard University, 1870-77, 1 vol. 3. "Catalogus Universitatis Harvardianæ," 1875. 4. Catalogue, 1877-78. 5. King's "Harvard and its Surroundings," 1 vol. 6. "Harvard Book" of Historical Sketches and Heliotype Illustrations of the Buildings, 2 large vols.
Educational. Class 8.

HAUTHAWAY (C. L.) and SONS, Boston, Mass.
69. Blacking, and Dressing for Leather.
Industrial, C. 2. *Class* 47.

HAYES, George, New York City.
25. Model of Windows, showing perforated Metallic Window Blinds and Ventilating Skylights.
Agricultural, 3. *Class* 66.

HAYES, M., Dover, Delaware.
Cereals.
Agricultural, Central. Class 69.

HEATH, PIPPEY and LARA, New Orleans, La.
American Moss.
Agricultural, Central. Class 46.

HEIM, ANTON, New York City.
235. Leather Belting, Hydraulic Packing Leather, Lithographic Roller, &c.
Industrial, D. 3. *Class* 54.

HENIS, CHAS. F., Philadelphia.
401. Adjustable Lock Elbow, for Stove, Heater, and Conductor Pipes.
Agricultural, 3. *Class* 27.

HENKLE, W. D., Salem, Ohio.
"Ohio Journal of Education," from January, 1876, 1 vol.
Educational. Class 6.

HEPPINGER, SAML., Smith, Ind.
Buckwheat.
Agricultural, Central. Class 69.

HERCULES LEVER JACK CO., Newark, N. J.
150. Hercules Lever Jack Hand Power Press.
Agricultural, 3. *Class* 54.

HERON, ALEX., Indianapolis, Ind.
Indian Corn on Stalk.
Agricultural, Central. Class 69.

HERON, WM., Connersville, Ind.
Millet.
Agricultural, Central. Class 69.

HERRING, FARRELL AND SHERMAN, New York City.
859. Fire and Burglar Proof Safes, for exhibition and for use of the Commission.
Machinery, 1. *Class* 66.

HIATT (E. J.) AND BRO., Chester Hill, Ohio.
Merino Wool.
Agricultural, Central. Class 46.

HIAWATHA, KANSAS, PUBLIC SCHOOLS. R. L. Iles, Superintendent.
1. Scholars' Work, 1 vol. 2. View of a Schoolhouse.
Educational. Class 6.

HICKS, WILLIAM H., New York City.
68. Bottle Stoppers, for Still or Aerated Liquids.
Industrial, D. 3. *Class* 19.

HIGGINSON, T. W., Newport, Rhode Island.
1. "School History of the United States," 1 vol. 2. "Mound Builders," 1 vol.
Educational. Class 6.

HILLS' ARCHIMEDEAN LAWN MOWER CO., Hartford, Ct.
503. Lawn Mowers.
Agricultural, 1. *Class* 76.

HINCKE, JULIUS. Egg Harbour City, N. J.
Wines.
Agricultural, Central. Class 75.

HINES AND GINNA, New York City.
564. Oil Tanks of Galvanized Iron, used as reservoirs by retail dealers of Illuminating and Lubricating Oils, and furnished for use of the Commission.
Agricultural, Central. Class 43.

HISTER, HENRY G., New Orleans, La.
Cotton.
Agricultural, Central. Class 46.

HOLLER, A. J., Catawba Co., N. C.
Wheat, Corn, and Buckwheat.
Agricultural, Central. Class 69.

HOLLINGER, AMOS, Lancaster, Pa.
694. Leather.
Industrial, C. 1. *Class* 49.

HOLLINGSWORTH, Z. T., East Walpole, Mass.
Rope-wrapping, Sand, Emery, and Tag Papers.
Industrial, D. 3. *Class* 10.

HOLT (HENRY) AND CO., New York City.
757. Text-Books for Elementary and Secondary Instruction, 67 vols. Miscellaneous Books.
Educational and Industrial, B. 3. *Classes* 6, 7, *and* 9.

HOLYOKE PAPER CO., Holyoke, Mass.
Linen, Writing, and Bank Note Paper.
Industrial, D. 3. *Class* 10.

HOOPER, G. F., Sonoma, Cal.
Native Wines.
Agricultural, Central. *Class* 75.

HOOPES BROS. AND DARLINGTON, West Chester, Pa.
71. Wheels, Spokes, Hubs, Felloes, &c.
Agricultural, 1. *Class* 62.

HOOPES AND TOWNSEND, Philadelphia, Pa.
282. Machine or Screw Bolts, Wood or Lag Screws, Boiler and Tank Rivets, Washers. Cold-punched Square and Hexagon Nuts, made by Machinery, producing entire accuracy and uniformity in the sizes of holes and in exterior shape, all surfaces being free from scale or crust. These Nuts are tapped and finished in less time, and with less wear of tools, than the usual hot-pressed or forged Nuts, the chamfer of regular shape and the bright finish of the sides making the rough cold-punched Nut the nearest approach to a polished one.
Industrial, D. 3. *Class* 43.

HORNE, H. R., Fayetteville, N. C.
Scupunong Wines.
Agricultural, Central. *Class* 75.

HORTON, G. B., New York City.
636. Hemlock Sole Leather.
Industrial, C. 1. *Class* 49.

HOTCHKISS (GREY C.), FIELD AND CO., New York City.
502. Wood-work for Carriages, Waggons, &c. Tool-handles and other products of American Wood.
Agricultural, 3. *Class* 62.

HOTCHKISS, H. G., Lyons, N. Y.
473. Essential Oils.
Industrial, C. 2. *Class* 47.

HOTCHKISS, L. B., Phelps, Ontario Co., N. Y.
771. Essential Oils.
Industrial, C. 2. *Class* 47.

HOUGHTON (E. F.) AND CO., Philadelphia, Pa.
Cosmoline, or Concentrated and Purified Petroleum. Cosmoline Lubricating Oils.
Machinery, 3. *Class* 47.

HOUGHTON (H. O.) AND CO., Riverside Press, Printers, Cambridge, Mass.
Miscellaneous Books.
Industrial, B. 3. *Class* 9.

HOUGHTON, OSGOOD AND CO., Boston, Mass.
544. Books and Periodicals.
Industrial, B. 3. *Class* 9.

HOWE SCALE CO., Rutland, Vt.
144. IMPROVED SCALES AND WEIGHING MACHINES for Mines, Foundries, and Rolling Mills, Farms and Plantations, Cheese Factories, Dairies, and Flour Mills; for Railways and Military Transport Service. Postal Balances. Metric and English Standard Scales for Schools.
Agricultural, 3. *Classes* 6, 10, 50, 52, 54, 64, 68, *and* 76.

HOYT, A. C., New York City.
Specimens of Twenty-two different Grades and Colours of Printing Inks, specially adapted for the finest class productions.
Machinery, 3. *American Model Printing Office. Class* 60.

HOYT (J. B.) AND CO., New York City.
268. Machine Belting.
Industrial, D. 3. *Class* 54.

HURKAMP, J. G., Fredericksburg, Va.
359. American Sumac.
Industrial, C. 1. *Class* 49.

HURLBURT PAPER CO., South Lee, Mass.
Lithographic and Chromo Paper. Bristol Board.
Industrial, D. 3. *Class* 10.

HURTT (F. W.) AND BROS., New York City.
436. Chemicals, Perfumes, and Toilet Articles.
Industrial, C. 2. *Class* 47.

DEN AND CO., New York City.

416. Chandeliers and Gas Fixtures.
Industrial, C. 3. *Class* 27.

ILLINOIS INDUSTRIAL UNIVERSITY, Champaign, Ill. J. M. Gregory, Regent.

1. Reports on the University, 7 vols. 2. Thirty-one Photographic Views of Buildings and Grounds. 3. Sixty-four Specimens of Shopwork. 4. Thirty Specimen Plates of Drawings. 5. Six Portfolios of Students' work, Theses, &c.

Educational. *Class* 8.

ILLINOIS STATE ASYLUM FOR FEEBLE-MINDED CHILDREN, Lincoln, Ill. C. T. Wilbur, Superintendent.

1. Scholars' Work—Twenty-three Embroidered Articles.
2. Photographs of Buildings and Pupils.

Educational. *Class* 6.

ILLINOIS STATE DEPARTMENT OF PUBLIC INSTRUCTION, Springfield. S. M. Etter, Superintendent.

Reports of the Superintendent.
Educational. *Class* 6.

LLINOIS STATE NORMAL UNIVERSITY, Normal, Ill. E. C. Hewett, President.

1. Reports, Catalogues, and History of the University, 2 vols. 2. Papers illustrating the work in certain departments, 2 vols.

Educational. *Class* 6.

INDIAN INTERNATIONAL AGRICULTURAL SOCIETY, Muscogee, I. T.

Tobacco and Stone Coal.

Agricultural, Central. Classes 43 *and* 46.

INDIANA STATE DEPARTMENT OF PUBLIC INSTRUCTION, Indianapolis. J. H. Smart, Superintendent.

1. Set of State Reports. 2. Model of a School House. 3. Reports of the Superintendent of Crawford County. 4. Manuals of the Public Schools, from Hendricks and Montgomery Counties.

Educational. Class 6.

INDIANA STATE NORMAL SCHOOL, Terre Haute, Indiana.

Scholars' work, 1st and 2nd classes, 3 vols.

Educational. Class 6.

INDIANA STATE UNIVERSITY, Bloomington, Indiana. R. C. Foster, Secretary.

Catalogues.

Educational. Class 8.

INDIANAPOLIS BOARD OF TRADE, Indianapolis, Ind.

Yellow and White Corn (in ear and shelled), Barley, Oats, Millet, White Rye, Wheat, White Oats, Clover Seed, Grass Seed, Pop Corn, Flax Seed, Linseed Meal, Hominy, coarse and fine Grits, Pearl Meal, Corn Flour, Feed and Corn Meal, Indian Corn on stalk, sheaves of Millet, White Wheat, Barley, Rye, Red Wheat, Buckwheat, Linseed Oil, Corn Starch, &c.

Agricultural, Central. Class 46 *and* 69.

INDIANAPOLIS, INDIANA, PUBLIC SCHOOLS.

Scholars' work:—1. Penmanship, 2nd to 8th years, 7 vols. 2. High School Examination Papers, 18 vols.

Educational. Class 6 *and* 7.

IOWA STATE DEPARTMENT OF PUBLIC INSTRUCTION, Desmoines. C. N. von Coellu, Superintendent.

1. School Laws and Decisions, 1 vol. 2. Biennial Reports of the Superintendent, 1870-1877, 4 vols.

Educational. Class 6.

IOWA STATE HORTICULTURAL SOCIETY, Desmoines, Iowa.

Wax Models of Fruits.

Agricultural, Central. Class 73.

IVERS, F., Cambridge, Mass.

135. Two Buggies.

Agricultural, 3. *Class* 62.

IVISON, BLAKEMAN, TAYLOR AND CO., New York City.

327. 1. Text Books for elementary and secondary Instruction. 2. Four series of Copy Books and Spencerian Writing Charts.

Educational and Industrial, B. 3. *Classes* 6, 7, *and* 9.

JACKSON CO., Nashua, N. H.
Unbleached or Grey Cotton Cloth.
Industrial, B. 1. *Class* 30.

JACOBS (S. W.) AND SON, Philadelphia.
28. Two Carriages.
Agricultural, 3. *Class* 62.

JAMISON (S. W.) BOOT AND SHOE CRIMPING MACHINE CO., New York City.
555. Machines for Crimping Leather.
Machinery, 1. *Class* 58.

JASLIN, GILMAN, Boston, Mass.
One Celestial and Three Terrestrial Globes.
Educational. Class 6.

JENKINS (E. C.) AND CO., Louisville, Ky.
836. Leaf Tobacco.
Agricultural, Central. Class 46.

JENKINS (F. W.) AND BRO., New York City.
Flour.
Agricultural, Central. Class 69.

JENKINS (W. H.) AND SON, New York City.
512. Doors and Sashes.
Agricultural, 1. *Class* 66.

JEWELL (P.) AND SONS, Hartford, Conn.
220. Leather and Leather Machine Belting.
Industrial, D. 3. *Classes* 49 *and* 54.

JOHNSON, A. J., New York City.
1. General Encyclopædia, suitable for reference in schools, 4 vols. 2. Universal Atlas.
Educational. Class 6.

JOHNSON, J. E., St. George, Utah.
Ephedra Antisyphillitica (plant used for tanning).
Agricultural, Central. Class 44.

JOHNSTON, E. S., Philadelphia, Pa.
723. Window Shade Rollers.
Industrial, B. 2. *Class* 18.

JOHNSTON HARVESTER CO., Brockport, N. Y.
295. Mowers and Reapers, Combined Machines, and Grain Binder.
Agricultural, 1. *Class* 76.

JONES, H. B., Hillsboro, N. C.
Smoking Tobacco.
Agricultural, Central. Class 46.

JONES, OWEN, Philadelphia, Pa.
768. Automatic Shell Extracting Revolvers. Extracts only empty shells, leaving the loaded cartridges in the cylinder.
Industrial, C. 2. *Class* 40.

JONES, SNYDER AND YOUNG, Richmond, Va.
Quercitron Bark.
Agricultural, Central. Class 44.

JORDAN, J. W., Muscogee, I. T.
Cotton.
Agricultural, Central. Class 46.

JURY, F. HERMAN, New York City.
614. Two Folding Children's Carriages.
Agricultural, 3. *Class* 62.

JUSTI, H. D., Philadelphia, Pa.
73. Dental Instruments and Appliances and Teeth.
Industrial, B. 2. *Class* 14.

JUSTICE, PHILIP SYNG, Philadelphia, Pa.
Iron and Steel produced from the ores direct, in reverberatory furnace, in from 4 to 6 hours, no blast furnace operations being required. Invented by Charles Meredith Du Puy, C. E.
Industrial, D. 2. *Class* 43.

JUVET, L. P., Glens Falls, N. Y.
580. Time Globe.
Industrial, B. 3. *Class* 15.

KAHNWEILER, David, New York City.
701. "Never Sink Cork Jacket."
Industrial, C. 3. *Class* 67.

KAISER and HERZOG, Philadelphia.
236. Designs for the decoration of Ceilings and Walls.
Industrial, B. 1. *Classes* 11 *and* 18.

KANSAS STATE DEPARTMENT OF PUBLIC INSTRUCTION. A. B. Lemmon, Superintendent, Topeka.
1. Set of State Reports. 2. Sets of City Reports. 3. Catalogues and Courses of Study of Colleges, High and Graded Schools. 4. Album of Photographs of Schoolhouses. 5. Volumes of Scholars' Work.
Educational, Classes 6 *and* 7.

KAUFMAN (F.) and CO., New York City.
Leather.
Industrial, C. 1. *Class* 49.

KECK and MOSSER, New York City.
709. Union Crop Leather.
Industrial, C. 1. *Class* 49.

KEITH (B.) and CO., New York City.
Oil of Erigeron.
Agricultural, Central. Class 47.

KEMBLE, Miss Mary W., New York City.
Lace Painting.
Industrial, B. 3. *Class* 17.

KENNEDY, W. M., Duplin Co., N. C.
Sugar Cane.
Agricultural, Central. Class 69.

KILLEBREN, J. B., Nashville, Tenn.
Agricultural Products.
Agricultural, Central. Class 69.

KIMBALL (WM. S.) AND CO., Rochester, N. Y.
74. Tobacco and Cigarettes.
Alimentary, 3. *Class* 46.

KLINCK, WICKENBERG AND CO., Charleston, S.C.
Sea Island Cotton.
Agricultural, 2. *Class* 46.

KNAPP DOVETAILING MACHINE CO., Northampton, Mass.
679. Machine for Dovetailing Cabinet and other Woodwork.
Machinery, 3. *Class* 59.

KNAPP, FRED. JAMES, New Orleans, La.
811. Ramie Plant, in various Stages, and Fabrics made from the same.
Agricultural, Central. Class 46.

KNAPP, J. H., New York City.
Gold Pens, Pencils, &c.
Industrial, C. 2. *Class* 10.

KNIGHT, EDWARD H., Bellefontaine, Ohio.
745. Knight's American Mechanical Dictionary, 3 vols., 4to.
Industrial, B. 3. *Class* 9.

KNIGHT, HAROLD H., Zanesfield, Ohio.
Maple Sugar.
Agricultural, Central. Class 74.

KRAUSE, H. F., New York City.
380. Maps, shaded in relief, of Turkey and the San Juan Country, with Heliotypes of the same.
Industrial, B. 2. *Class* 16.

KRESKEN, Miss H. A., Cincinnati, Ohio.
Dried Flowers, &c.; Fruit, Tree, and Vegetable Seeds.
Agricultural, Central. Class 69.

KROEBER, F., New York City.
593. Fine Walnut-Case Clocks, with Device allowing Hands to be turned backward and forward.
Industrial, C. 2. *Class* 26.

KUNTZ, J. AND S. F., Morrisania, N. Y.
Lager Beer.
Agricultural, 3. *Class* 75.

LAFAYETTE COLLEGE, Easton, Pennsylvania. S. S. Fissler, Secretary.
1. Scholars' Work: Contour Map of the College Grounds. 2. Framed View of Pardee Hall.
Educational. Class 7.

LAFLIN, J. M., New York City.
136. Rowing Apparatus for a Home Gymnasium, giving fifty different ways of exercises.
Agricultural, 3. *Class* 42.

LA FRANCE MANUFACTURING CO., Elmira, N. Y.
1004. Rotary Steam Fire Engine and Hose Cart.
Machinery, 1. *Class* 67.

LALANCE AND GROSJEAN MANUFACTURING CO., New York City.
30. Culinary Utensils, of Tinned Iron, Planished Tin, Polished Iron, Copper and Brass, and Agate Iron, &c.
Industrial, C. 3. *Class* 43.

LANDIS, EZRA F., Lancaster, Pa.
704. Improved "Eclipse" Fan Blower.
Agricultural, Central. Class 54.

LANDY, JAMES, Cincinnati, Ohio.
477. Photographs.
Industrial, B. 3. *Class* 12.

LANGLEY MILLS, Augusta, Ga.
Cotton Fabrics.
Industrial, B. 3. *Class* 30.

LAPHAM, O. K., New York City.
642. Sole Leather.
Industrial, C. 1. *Class* 49.

LAPHAM, SMIBERT AND CO., Chicago, Ill.
645. Leather.
Industrial, C. 1. *Class* 49.

LAPORTE PUBLIC SCHOOLS, La Porte, Ind.
School Reports.
Educational. Class 6.

LARRABEE (E. J.) AND CO., Albany, N. Y.
Plain and Fancy Biscuits and Cakes (400 varieties).
Alimentary, 2. *Class* 70.

LASSALES (CHARLES) AND CO., New York City.
810. Files of "Courier des Etats Unis," Daily, Weekly, and European Special Editions.
Industrial, B. 3. *Class* 9.

LAWRENCE PUBLIC SCHOOLS, Kansas. Boles, Superintendent.
1. Set of Superintendent's Annual Reports. 2. Scholars' Work. 3. View of School Building.
Educational. Class 6.

LEA, HENRY C., Philadelphia, Penn.
Medical Text-Books, 37 vols.
Educational. Class 8.

LEAMNIG, J. S., Wilmington, Ohio.
Corn.
Agricultural, Central. Class 69.

LEAS AND McVITTY, Philadelphia, Pa.
360. Oak-Tanned Sole-Leather.
Industrial, C. 1. *Class* 49.

LEAVENWORTH PUBLIC SCHOOLS, Kansas. John Whewell, Superintendent.
1. City School Reports, 8 vols. 2. Scholars' Work; Examination Papers. 3. Views, exterior and interior, of Schoolhouses.
Educational. Class 6.

LECHNER MINING MACHINE CO., Columbus, Ohio.
445. Model of Machine for Mining Coal.
Machinery, 1. *Class* 50.

LEE AND SHEPHARD, Boston, Mass.
Text-Books.
Educational. *Class* 6.

LEEDS (L. W.) AND CO., New York City.
752. Diagrams, Illustrating Method of Ventilating and Warming Buildings.
Industrial, D. 3. *Class* 27.

LEEDS, PAUL B., New Orleans, La.
Salt.
Agricultural, 3. *Class* 74.

LEFRANC, E., Philadelphia, Pa.
Ramie Fibre.
Agricultural, Central. *Class* 46.

LEHNERT, HENRY G., Philadelphia.
75. Brass Musical Instruments for Bands and Orchestras, &c.
Industrial, B. 3. *Class* 13.

LEIGH, EDWIN, Brooklyn, New York.
Appliances for Teaching the First Steps in Reading by Leigh's Pronouncing Type: (a) Reading Books, 9 vols.; (b) Miscellaneous Publications, 7 vols.; (c) Illustrative Charts, 5 sets.
Educational. *Class* 6.

LEMP, W. J., St. Louis, Mo.
Bottled Beer.
Alimentary, 3. *Class* 75.

LEONARD AND ELLIS, New York City.
Lubricating Oils.
Industrial, C. 2. *Class* 47.

LEWIS BROS. AND CO., Providence, R. I.
449. White and Coloured Cotton Fabrics.
Industrial, B. 2. *Class* 30.

LEWIS (W. K.) AND BRO., Boston, Mass.
Canned and Preserved Fruits.
Agricultural, 3. *Class* 73.

LIBBY, JAMES L., New York City.
113. Paper Collars and Cuffs, and Cloth Faced Paper Collars and Cuffs.
Industrial, C. 3. *Class* 38.

LIBBY, McNEAL AND LIBBY, Chicago, Ill.
Canned Meats.
Alimentary, 2. *Class* 72.

LIEBRANDT AND McDOWELL STOVE CO., Philadelphia, Pa.
Heating Stoves, Cooking Stoves, Ranges, and Laundry Stoves.
Outside Main Building, near Pullman Car, and in Agricultural. Class 27.

LIFTEN, BEN., Muscogee, Indian Terr.
Tobacco.
Agricultural, Central. Class 46.

LIGHTHOUSE, J. C., Rochester, Wy.
29. Horse Collars.
Industrial, D. 3. *Class* 63.

LINCOLN, D. F., Boston, Mass.
School Hygiene in the United States: Reports, papers, and various documents bound in one volume.
Educational. Class 6.

LIPPINCOTT (J. B.) AND CO., Philadelphia, Penn.
1. Text-books for Elementary and Secondary Instruction, 52 vols. 2. Set of Cutler's Anatomical Charts. Miscellaneous Books.
Industrial, B. 3, *and Educational. Classes* 6, 7, *and* 9.

LIPPINCOTT, WILLIAM H., Philadelphia.
726. Banner or Shield, exhibiting a variety of Native American Woods.
Agricultural, 10. *Class* 44.

LLOYD, SUPPLE AND WALTON, Philadelphia.
Lawn Mowing Machine.
Agricultural, 1. *Class* 76.

LOBDELL CAR WHEEL CO., Wilmington, Del.
289. Cast Chilled Iron Car Wheels, and Cast Chilled Iron Rolls for Calendering Paper.
Machinery, F. 1. *Classes* 43 *and* 60.

LOCKWOOD, BROOKS AND CO., Boston, Mass.
Clarke's Astronomical Lantern.
Educational. Class 6.

LOCKWOOD, HOWARD, New York City.
732. Books.
Industrial, B. 3. *Class* 9.

LOEWENBERG, HENRY, Philadelphia.
256. "Velociplastic" Fac-similes of Leather, Damasks, Reps, Bronze Work, &c.
Industrial, C. 1. *Class* 21.

LORENZ BROS., Toledo, Ohio.
189. Perfumery and articles for the toilet.
Industrial, C. 2. *Class* 28.

LORRILLARD (P.) AND CO., Jersey City, N. J.
617. Tobacco and Snuff.
Alimentary, 1, *and Agricultural*, 3. *Class* 46.

LOTHROP (D.) AND CO., Boston, Mass.
545. Books and Magazines.
Industrial, B. 3. *Class* 9.

LOTTIER, LAWRENCE, Richmond, Va.
Tobacco.
Agricultural, Central. Class 46.

LOUISIANA OIL CO., New Orleans, La.
802. Specimens of Cotton Seed, Raw and Hulled, Cotton Seed Cake, and Meal, Oil, Sinters, and Hulls.
Agricultural, Central. Classes 46 *and* 69.

LOUISIANA STATE DEPARTMENT OF PUBLIC INSTRUCTION. R. M. Lusher, Superintendent, New Orleans.

Report of the Superintendent for 1877. 1 vol.
Educational. Class 6.

LOVEGROVE AND CO., Philadelphia, Pa.

137. Steam Engine and Boiler, Combined, Two-Horse Power.
Machinery, 1. *Class* 54.

LOVELL (JOHN P.) AND SONS, Boston, Mass.

441. Air Guns, Pistols, and Revolvers.
Industrial, C. 3. *Class* 40.

MACATEE AND BRO., Front Royal, Va.
Sumac, in various stages of manufacture.
Agricultural, Central. *Class* 44.

McCALL AND NEWMAN, Phila.
Filled Gold Rings.
Industrial, C. 2. *Class* 39.

McCORMICK, C. H. AND L. J., Chicago, Ill.
97. Mowing, Reaping, and Binding Machines.
Agricultural, 2. *Class* 76.

McCURDY, Lime, Conn.
Granite.
Outside Main Building, near Alimentary Section. *Class* 43.

McDONALD, JAMES, Williamsport, Pa.
77. Square, Grand Pianoforte.
Industrial, B. 3. *Class* 13.

McEVOY AND GAYTON, Cleveland, Ohio.
742. Bower, Sewer Gas Trap, for exhibition and for use of the Commission.
Machinery, 3 (*near American Engine*). *G.* 6. *Class* 66.

McFARLANE (V. W.) AND CO., New York City.
78. Refined Lard.
Alimentary, 3. *Class* 71.

McGUIRE, THOMAS D., Philadelphia, Pa.
238. Solid Top Cigar Moulds.
Agricultural, 2. *Class* 51.

McILHENNY, E., New Iberia, Parish, La.
Tabasco Pepper Sauce.
Agricultural, Central. *Class* 74.

McILROY, T., New York City.
152. Surgical Operating Tables, Invalid Bed, and various Surgical Apparatus.
Industrial, B. 1. *Class* 14.

MACKELLAR, SMITHS AND JORDAN, Philadelphia.
730. 1. Specimen Book of Printing Types, &c. 2. Types, Borders, and Rules.
Machinery, 3. *Class* 60.

McKENNEY, E. F. AND F. L., Marengo, Ill.
Preserved Fruits.
Agricultural, 3. *Class* 73.

McKESSON AND ROBBINS, New York City.
269. American Crude Drugs and Essential Oils.
Industrial, C. 2. *Class* 47.

McKINNON, D. D., Montgomery Co., N. C.
Sorghum Seed.
Agricultural, Central. *Class* 69.

McLAUGHLIN, LOUISE, Cincinnati, Ohio.
Painted Porcelain and Pottery.
Industrial, B. 3. *Class* 20.

McMURRAY, LOUIS AND CO., Baltimore, Md.
337. Oysters in Cans.
Alimentary, 1. *Class* 72.

McPHERSON, SAMUEL, Louisville, Ky.
Leaf Tobacco.
Agricultural, Central. *Class* 46.

McSHANE, HENRY AND CO., Baltimore, Md.
777. Church Bells and Mountings.
Industrial, D. 3. *Class* 43.

MAGINNIS (A. A.) SONS, New Orleans, La.
Cotton Seed Oil.
Agricultural, Central. *Class* 46.

MAILLARD, HENRY, New York City.
33. Chocolate and Confectionery.
Chocolate statues representing the four parts of the world, made by a new process, weighing 100 lbs. each. Five Medicis Vases made of solid Chocolate, and weighing 180 lbs. each. An album entitled "Voyage dans Ile des Plaisirs," containing 3,000 different styles of Bonbons and fancy Chocolate.
Alimentary, 2. *Class* 74.

MALLORY, WHEELER AND CO., New Haven, Conn.
32. Reversible Door Locks, Wrought Iron Padlocks, Door Knobs and Handles in Mineral Porcelain and Bronze.
Industrial, D. 1. *Class* 43.

MANNING, BOWMAN AND CO., West Meriden, Conn.
Silver, Nickel and White Metal Mountings on Sheet Metal Ware, &c.
Industrial, C. 3. *Class* 43.

MANVILLE COMPANY, Providence, R. I.
449. Cambric Linings.
Industrial, B. 1. *Class* 30.

MARCOTTE (L.) AND CO., New York City.
411. Furniture.
Industrial, B. 1. *Class* 17.

MARCY (FRED. J.) AND CO., Providence, R. I.
526. Rolled Plate, or Soft Solder Jewellery.
Industrial, C. 2. *Class* 39.

MARKT AND CO., New York City.
491. Horse Rakes, Forks, Shovels, and Hoes, &c.
Agricultural, 2. *Class* 76.

MARYLAND STATE DEPARTMENT OF PUBLIC INSTRUCTION. M. A. Newell, Superintendent, Baltimore.
1. State Reports, 1865-1877, 13 vols. 2. State Normal School Catalogues, and Examination Questions. 3. Report of State Board of Health on Public Charities.

4. Set of Reports of Maryland Institute. 5. Set of Reports of Peabody Institute. 6. Set of Reports of Institution for the Blind.

Educational. Class 6.

MASON, A., New York City.

381. Machine for making Embroidery and Braiding, on Cloth and other Fabrics. Embroidery Attachments for Sewing Machines.

Machinery, 1. *Classes* 54 *and* 58.

MASON, FANNY P., Brooklyn, N. Y.

Adjustable Book Support, for Keeping Books in an erect position on Library Shelves, Office Tables, &c.

Machinery, 1. *Class* 17.

MASON AND HAMLIN ORGAN CO., New York City.

82. Cabinet Organs.

Industrial, *B*. 3. *Class* 13.

MASON, LUTHER WHITING, Boston, Mass.

1. Music Publications. 6. Books, and four Sets of Charts and Manuscript Music Books. 2. System of Musical Instruction in Japanese.

Educational. Class 6.

MASON, VOLNEY (W.) AND CO., Providence, R. I.

392. Friction Clutch-Pulleys, and Elevator Hoisting Machinery.

Machinery, 1. *Class* 54.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Boston, Mass. J. D. Runkle, President.

1. Documents relating to Organization and Course of Study, 2 vols., and several Pamphlets. 2. Architectural Drawings of Students, contributed by Wm. R. Ware, Professor of Architecture, in sixteen frames.

Educational. Class 8.

MASSACHUSETTS STATE DEPARTMENT OF PUBLIC INSTRUCTION. J. W. Dickinson, Secretary of the State Board of Education, Boston.

1. Complete Set of Reports of the Board of Education,

34 vols. 2. Complete Set of the Annual Reports of the School Committees of the 344 Municipalities of the State for 1875, 12 vols. 3. Educational Map of the State.

Educational. Classes 6 *and* 7.

MASSACHUSETTS STATE NORMAL ART SCHOOL, Boston, Mass. Walter Smith, Director.

Scholars' Work, 10 Portfolios of Drawings.

Educational. Class 7.

MASSACHUSETTS STATE NORMAL SCHOOL, Bridewater, Mass. A. G. Boyden, Principal.

1. History and Alumni Record of the School, 1 vol. 2. Plans and Views of the School Buildings.

Educational. Class 6.

MASSEY, G. B., New York City.

705. Massey's Revolving Boot and Shoe Heel Protector.

Industrial, D. 3. *Class* 38.

MASSEY (Wm. C.) and CO., Phila.

856. Ale and Porter.

Agricultural, 3. *Class* 75.

MATTHEWS, John, New York City.

346. Soda Water Apparatus, for dispensing pure Soda Water, and other Aërated Beverages. Marble and Steel Portable Fountains for the transportation of Aërated Beverages, made of Steel and Iron.

Industrial, D. 3. *Class* 52.

MATTSON, Morris, New York City.

272. Medical and Surgical Instruments, especially for Application of Dry-Heat and Dry-Cold.

Industrial, B. 2. *Class* 14.

MEADVILLE, PENNSYLVANIA, PUBLIC SCHOOLS. S. P. Bates, Superintendent.

Scholars' Work, Free-Hand Drawings, from nine classes, each representing one year of advancement, 1 Portfolio.

Educational. Class 6.

MEARES, E., Bladen Co., N. C.
Corn.
Agricultural, Central. *Class* 69.

MECHANICAL PRINTER'S QUOINS (Benj. F. Allen), Boston, Mass.
A noiseless and effective device for use in "locking up" Printers' Formes, making changes on press for colours or register without disturbing the correct position of Forme.
Am. Model Printing Office, Machinery, 3. *Class* 60.

MEEHAN, Thos., Germantown, Pa.
Seeds of Forest Trees.
Agricultural, Central. *Class* 89.

MELLEN, Lucius F., West Springfield, Mass.
Connecticut Seed Leaf Tobacco.
Agricultural, Central. *Class* 46.

MELLOR and RITTENHOUSE, Philadelphia.
739. Extract of Liquorice Root.
Industrial, C. 2. *Class* 47.

MEMPHIS COTTON EXCHANGE, Memphis, Tenn.
462. One Bale of Cotton.
Agricultural, Central. *Class* 46.

MERIDEN FLINT GLASS WORKS, West Meriden, Conn.
850. Cut Glass, Table and Decorated Ware.
Industrial, D. 2. *Class* 19.

MERRIAM, G. and C., Springfield, Mass.
328. Webster's Dictionaries.
Educational and Industrial, B. 3. *Classes* 6 *and* 9.

MERSEREAU, W. T. and J., Newark, N. J.
Stair Rods.
Industrial, D. 3. *Class* 43.

MEYBRIDGE, E. J., San Francisco, Cal.
Pneumatic Clock.
Industrial, B. 2. *Class* 26.

MEYER (CONRAD) AND SONS, Philadelphia, Pa.
444. Pianofortes.
Industrial, B. 3. *Class* 13.

MEYERS, A. G., New York City.
475. Water Closets, Wash Basins, and Urinals.
Agricultural, 1. *Class* 66.

MICHIGAN STATE UNIVERSITY, Ann Arbor. J. B. Angell, President.
1. Calendar and last General Catalogue. 2. Adam's Historical Sketch.
Educational. Class 8.

MILSOM, H., Buffalo, N. Y.
Ozone Generator and Diffuser.
Educational. Class 6.

MILWAUKEE PUBLIC SCHOOLS, Wisconsin. James McAlister, Superintendent.
1. City School Reports, 3 vols. 2. Scholars' Work in District, High, and Normal Schools, 120 vols. 3. Six School Plans. 4. Photographs of School Houses, one Portfolio. 5. Statistical Statement in frame. 6. Blanks and Forms, 1 vol.
Educational. Classes 6 *and* 7.

MINERAL EXHIBIT OF THE PACIFIC COAST.
A collection of about 2,500 specimens of Gold, Silver, Lead, Copper, and other ores, and all the mineral products known to exist on the Pacific Coast.
Agricultural, Central. Class 43.

MINNESOTA STATE DEPARTMENT OF PUBLIC INSTRUCTION, St. Paul. D. Burt, Superintendent.
Reports of the Superintendent.
Educational. Class 6.

MISSISSIPPI MILLS, Wesson, Miss.
Jeans, Tweeds, Doeskins, Cotton Plaids, Checks, Sheetings, Shirtings, &c.
Industrial, B. 2. *Class* 30.

MISSISSIPPI STATE DEPARTMENT OF PUBLIC INSTRUCTION, Jackson. J. A. Smith, Superintendent.
Report of the Superintendent for 1876, 1 vol.
Educational. Class 6.

MITCHELL, HENRY, Boston, Mass.
Medals and Seals Engraved.
Industrial, B. 3. *Class* 11.

MOLINE WAGGON COMPANY, Moline, Ill.
One Farm Waggon.
Agricultural, 2. *Class* 62.

MONTAGUE PAPER CO., Turners Falls, Mass.
News Printing Paper. Samples, illustrative of the utilization of various woods in the manufacture of Pulp for Paper.
Agricultural, Central, and Industrial, D. 3. *Classes* 10 *and* 46.

MONTICELLO WINE CO., Charlottesville, Va.
Wines.
Agricultural, Central. Class 75.

MOORE, JOSEPH A., Indianapolis, Ind.
Two Office Desks.
Agricultural, Central. Class 17.

MOREMAN, ALONZO, Brandenburg, Ky.
Salt and Corn.
Agricultural, Central. Classes 69 *and* 74.

MORRIS (E.) AND CO., Philadelphia.
448. Felt and Silk Hats.
Industrial, C. 3. *Class* 38.

MORRIS, WHEELER AND CO., Philadelphia.
713. Sample card, showing Cut Nails.
Industrial, D. 3. *Class* 143.

MORSE TWIST, DRILL, AND MACHINE CO., New Bedford, Mass.
266. The "Morse" Patent Twist Drill and other Machinists' Tools.
Machinery, 2. *Class* 55.

MORTON, Jas., New York City.
Gold Pens and Pencils.
Industrial, C. 3. *Class* 10.

MOUNT HOLYOKE FEMALE SEMINARY, South Hadley, Mass. Miss Julia Ward, Principal.
1. Catalogues, 2 vols., 1 Portfolio. 2. Five Historical and Memorial Volumes. 3. Plans, Photographs, and Water Colour Picture of School and Grounds.
Educational. Class 7.

MOWER, E., Roxbury Station, Conn.
947. Granite.
Outside Main Building, near Alimentary Section. Class 43.

MUDGE (E. R.), SAWYER and CO., New York City.
Cotton Goods.
Industrial, B. 2. *Class* 30.

MUHR'S (H.) SONS, Philadelphia.
34. Gold Rings and Lockets.
Industrial, C. 2. *Class* 39.

MULLER, Richard A., Brooklyn, L. I.
854. Specimens of Wood Engravings for Illustrated Books.
Industrial, B. 2. *Class* 5.

MUNROE, Lewis B., Boston, Mass.
System of teaching the first steps in reading, illustrated by Charts and Books.
Educational. Class 6.

MURPHY'S (Wm. F.) SONS, Philadelphia, Pa.
733. Blank Book.
Industrial, B. 3. *Class* 10.

NAPHEY (G. C.) AND SON, Philadelphia, Pa.
Lard.
Alimentary, 3. *Class* 71.

NASHUA MANUFACTURING CO., Nashua, N. H.
Unbleached or Grey Cotton Cloths and Flannels.
Industrial, *B*. 2. *Class* 30.

NASON MANUFACTURING CO., New York City.
215. "Steam Traps" to release Steam Pipes from Water of Condensation.
Agricultural, 3. *Class* 54.

NATHAN AND DREYFUS, New York City.
450. Injectors and Ejectors (Steam Pumps).
Industrial, *D*. 2. *Class* 54.

NATIONAL ASSOCIATION FOR PUBLISHING LITERARY AND MUSICAL WORKS FOR THE BLIND.
Publications.
Educational. *Class* 6.

NATIONAL CAR SPRING CO., New York City.
154. Railway Car Springs.
Industrial, *D*. 3. *Class* 64.

NATIONAL DEAF MUTE COLLEGE: COLUMBIA INSTITUTION FOR THE INSTRUCTION OF THE DEAF AND DUMB, Washington, D. C.
1. Reports, 1858-1875. 2. Publications relating to Deaf Mute Instruction, 41 vols. 3. Collection of Photographs of Institutions for Deaf Mutes.
Educational. *Class* 7.

NATIONAL RUBBER CO., Bristol, R. I.
36. Rubber Goods.
Industrial, C. 3. *Class* 38.

NATIONAL SUSPENDER CO., New York City.
566. Suspenders and Suspender Webbings.
Industrial, C. 3. *Class* 37.

NAVASSA GUANO CO., New Hanover Co., N. C.
Rice.
Agricultural, Central. Class 69.

NEW ENGLAND GRANITE WORKS, Hartford, Conn.
746. Vase of Polished "Westerly" Granite. Three twelve-inch Cubes of Granite.
Agricultural, Central, G. Class 43.

NEW HAMPSHIRE STATE DEPARTMENT OF PUBLIC INSTRUCTION. Charles A. Downs, Superintendent. Concord.
1. Report of the Superintendent, 1 vol. 2. Registers and Blanks.
Educational. Class 6.

NEW HAVEN, CONNECTICUT, PUBLIC SCHOOLS. Ariel Parish, Superintendent.
City School Reports, 1 vol.
Educational. Class 6.

NEW HAVEN WHEEL CO., New Haven, Conn.
211. Carriage, Cart, Waggon and Truck Wheels, and Wheel Materials of American Woods, for Home use and for Export.
Agricultural, 3. *Class* 62.

NEW JERSEY STATE DEPARTMENT OF PUBLIC INSTRUCTION. E. A. Apgar, Superintendent, Trenton.
1. Superintendent's Reports. 2. Scholars' Work. 3. Views of Schoolhouses; Interior School Views with Stereoscope.
Educational. Class 6.

NEWMAN AND HAWKINS, Elgin, Ill.
Creamery Butter.
Agricultural, Central. Class 71.

NEW ORLEANS COTTON EXCHANGE, New Orleans, La.
Cotton, Samples of the grades sold in the Market of New Orleans.
Agricultural, Central. Class 46.

NEWTON PAPER CO., Holyoke, Mass.
Carpet Lining Paper, Moth Proof.
Industrial, D. 3. *Class* 10.

NEWTON PUBLIC SCHOOLS, Mass. E. Hunt, Superintendent.
Scholars' Work.
Educational. Classes 6 *and* 7.

NEW YORK CITY PUBLIC SCHOOLS. Henry Kiddle, Superintendent.
City School Reports, 1875.
Educational. Class 6.

NEW YORK CONSOLIDATED CARD CO., New York City.
239. Playing Cards.
Industrial, C. 1. *Class* 10.

NEW YORK DESICCATING CO., N. Y.
Desiccated Cocoa.
Alimentary, 3. *Class* 73.

NEW YORK SAFETY STEAM POWER CO., New York City.
944. Horizontal, Vertical, and Launch Engines for Exhibition and for use of Commission.
Machinery, 2. *Class* 54.

NEW YORK SILICATE BOOK SLATE CO., New York City.
240. Silicate Book Slates, Liquid Slating, Silicate Black Board Cloth, and Slated Paper.
Industrial, B. 3. *Class* 10.

NEW YORK STATE DEPARTMENT OF PUBLIC INSTRUCTION. Neil Gilmour, Superintendent, Albany.

Set of Reports of the Superintendent.

Educational. Class 6.

NEW YORK STATE UNIVERSITY.

Set of Reports of the Regents, and of the University Convocations.

Educational. Class 8.

NONOTUCK SILK CO., Florence, Mass.

635. Spool Sewing Silk.

Industrial, B. 2. *Class* 34.

NORTHAMPTON EMERY WHEEL CO., Leeds, Mass.

192. Patent Solid Emery Wheels, and Emery Wheel Machinery.

Machinery. Class 55.

NORTHFIELD KNIFE CO., Northfield, Conn.

717. Pocket Cutlery.

Industrial, D. 3. *Class* 23.

NORTON, C. B., New York City.

Book, "Treasures of Art Industry and Manufactures at the International Exhibition, 1876."

Industrial, B. 3. *Class* 9.

NYE, WM. F., New Bedford, Mass.

852. Oils for Watch, Clock, and Chronometer use.

Industrial, C. 2. *Class* 46.

OAKLEY, Thos. B., Paris, France.
691. Works of Art in California Gold and Quartz.
Industrial, B. 1. *Class* 24.

OCEAN MILLS, Newburyport, Mass.
Unbleached and Grey Cotton Cloth.
Industrial, B. 2. *Class* 30.

OHIO STATE DEPARTMENT OF PUBLIC INSTRUCTION. J. J. Burns, Commissioner, Columbus.
1. Reports of the Commissioner, 9 vols. 2. "History of Education in Ohio," 1 vol. 3. "Higher Education," 1 vol. 4. "History of Public Schools," 1 vol.
Educational. Class 6.

OHIO TOOL CO., Columbus, Ohio.
772. Carpenters' Hand Tools.
Industrial, D. 3. *Class* 43.

OLATHE, KANSAS, PUBLIC SCHOOLS. A. Carroll, Superintendent.
Scholars' Work.
Educational. Class 6.

OLDHAM, Alex., Wilmington, N. C.
Pearl Hominy.
Agricultural, Central. Class 69.

OLMSTEAD, F. L., New York City.
367. Landscape Drawings.
Machinery. Class 10.

OLMSTED, L. H., New York City.
357. Night Lamps, "Little Harry's Odourless."
Industrial, C. 3. *Class* 27.

OPEN STOVE VENTILATING CO., New York City; Factory, Phillipsburg, N. J.
84. One "Fire on the Hearth" combination of an Open Fire, Close Stove, and Warm-air Furnace.
Industrial, C. 3. *Class* 27.

OREGON FURNITURE MANUFACTURING CO., Portland, Oregon.
Desk and a Cabinet (used for the display of the Exhibits of Oregon).
Agricultural, Central. Class 17.

OREGON STATE COMMISSION, Portland, Oregon.
Wheat, in bunches; Barley; Oats; Flax; Timothy Grass; Orchard Grass; Wheat yielding 60 bushels per acre; Oats, 90 bushels; Oats yielding 70 bushels per acre, and weighing 50 lbs. per bushel. Barley yielding 90 bushels per acre. Wheat Flour, Vegetable Seeds, Woods of the State (80 varieties), Raw and Boiled Linseed Oil and Linseed Cake, Building Stone, Fleece, Merino Wool, Broom-Corn, Feathers, Ferns, Moss, Grasses, Flowers, and Hops.
Agricultural, Central. Classes 43, 44, 46, 47, 69, *and* 73.

OSBORNE (C. S.) AND CO. Newark, N. J.
Saddlers' and Harness Makers' Tools.
Industrial, D. 2. *Class* 59.

OSBORNE (D. M.) MANUFACTURING CO., Auburn, N. Y.
38. Mowing and Reaping Machines.
Agricultural, 1. *Class* 76.

OSCILLATING PUMP CO., New York City.
613. Force and Bilge-Pumps.
Agricultural, 1. *Class* 54.

OTT AND BREWER, Trenton, N. J.
762. White and Coloured Vases, Busts, &c., in true Porcelain.
Industrial, D. 2. *Class* 20.

OTTAWA, KANSAS, PUBLIC SCHOOLS. Wm. Wheeler, Superintendent.
1. Scholars' Work, 2 vols. 2. View of a School-house.
Educational. Class 6.

OUTCALT, J., Spottswood, N. J.
Corn Meal and Hominy.
Alimentary, 3. *Class* 69.

PACIFIC COAST MINERAL EXHIBIT.
A collection of about 2,500 specimens of Gold, Silver, Lead, Copper, and other ores, and all the mineral products known to exist on the Pacific Coast.
Agricultural, Central. Class 43.

PACKER, Charles W., Philadelphia.
731. Paper Box Manufacturers' Machines for oval cutting, circular cutting, and for cutting straight sides with semicircular ends. Ice Cream Freezers, Cog-wheel, Double-action, and Confectioners'.
Agricultural, 3, *and Machinery,* 3. *Classes* 60 *and* 52.

PAGE, E. W., New York City.
848. Boat Oars.
Agricultural, 3. *Class* 67.

PAGE (W. H.) WOOD TYPE CO., Norwich, Conn.
126. Specimens of Wood Printing Type, and Printing from the same.
Machinery, 2. *Class* 60.

PALEN (Geo.) and CO., New York City.
647. Hemlock Sole Leather.
Industrial, C. 1. *Class* 49.

PALMO SUN-SHADE CO., New York City.
157. Sun-shades, for protection against sun-stroke, arranged so as not to interfere with any position in which the body of a person be placed during daily occupations.
Industrial, C. 3. *Class* 37.

PANCOAST AND MAULE, Philadelphia.
403. "Acme" Patent Gas-pipe Cutter.
Agricultural, 1. *Class* 55.

PAOLA, KANSAS, PUBLIC SCHOOL. G. A. Copley, Superintendent.
Scholars' Work.
Educational. Class 6.

PARENT, CHAS. E., New York City.
85. Glass Ball Castor.
Industrial, B. 2. *Class* 17.

PARKER (JOSEPH) AND SON, New Haven, Conn.
Blotting Paper.
Industrial, D. 3. *Class* 10.

PARMENTER AND WALKER, Wattham, Massachusetts.
White and Coloured School Chalk Crayons.
Educational. Class 6.

PATTBERG (LEWIS) AND BRO., New York City. Factory, Jersey City.
394. Velvet and Metal Picture Frames, Toilet Mirrors, Glove and Handkerchief Boxes, Albums.
Industrial, B. 2. *Class* 29.

PATTERSON, Philadelphia, Penn.
Hardware for school use.
Educational. Class 6.

PEASE, F. S., Buffalo, N. Y.
39. Illuminating and Lubricating Oils, for exhibition and for use of Commission.
Industrial, C. 2. *Class* 47.

PEIL (W. F.) AND CO., Indianapolis, Ind.
Refined Corn Starch.
Agricultural, Central. Class 69.

PENNSYLVANIA FILE WORKS, McCaffrey and Bro., Philadelphia.
277. Files and Rasps.
Industrial, D. 3. *Class* 45.

PENNSYLVANIA STATE DEPARTMENT OF PUBLIC INSTRUCTION. J. P. Wickersham, Superintendent, Harrisburg.
1. State Reports. 2. School Laws. 3. Official blanks and forms.
Educational. Class 6.

PENNSYLVANIA STATE NORMAL SCHOOL, West Chester, Pa. G. L. Maris, Principal.
1. Scholars' Work, Examination Papers in Algebra and Geometry, 2 vols. 2. Catalogues.
Educational. Class 6.

PENNYPACKER AND BROTHER, Philadelphia.
773. Doors, Sash, Blinds and Shutters.
Agricultural, Central. Class 66.

PENTLARGE, R., New York City.
719. Patent Vent Bung.
Alimentary, 2. *Class* 54.

PERKINS INSTITUTION AND MASSACHUSETTS ASYLUM FOR THE BLIND, Boston, Mass. M. Anagnos, Superintendent.
1. Scholars' Work, twelve articles of dress and household use, by Laura Bridgman and other pupils. 2. Textbooks and Maps in raised characters, 5 vols. 3. Howe Memorial, 1 vol.
Industrial, B. 3, *and Educational. Classes* 6 *and* 9.

PERRIS AND BROWN, New York City.
605. Volume I. of Insurance Map of N. Y. City.
Industrial, B. 3. *Class* 9.

PERRY, F. H., Providence, R. I.
Preserved Fruits.
Alimentary, 3. *Class* 73.

PETERS' COMBINATION LOCK CO., Waterbury, Conn.
687. Combination Locks for Drawers, Post Offices, Padlocks, Safes, &c.
Industrial, D. 2. *Class* 43.

PETERSON (T. B.) AND BROTHERS, Philadelphia, Penn.
1. Text Books, 3 vols. 2. One Elocutionary Chart.
Educational. Class 6.

PHELPS, W. F., Whitewater, Wisconsin.
"Handbook for Teachers," 1 vol.
Educational. Class 6.

PHILADELPHIA COLLEGE OF PHARMACY, Philadelphia.
398. Collection of American Drugs.
Industrial, C. 2. *Class* 47.

PHILADELPHIA, PENN. PUBLIC SCHOOLS. H. W. Hallowell, Secretary, Board of Education.
1. City School Reports, 6 vols. 2. Plans of Normal School Building.
Educational. Class 6.

PHILADELPHIA AND READING COAL AND IRON CO., Philadelphia.
761. American Anthracite Coal.
Outside near Main Building. Class 43.

PHILADELPHIA AND READING RAIL ROAD CO., Philadelphia.
761. American Locomotive, adopted for the use of Anthracite Coal.
GENERAL DESCRIPTION.—Approximate weight of Engine, 85,792 lbs.; approximate weight of Tank empty,

22,200 lbs.; Diameter of Drivers 54 inches, Journals $6\frac{1}{8}$ inches; Life of Steel Tire 175,000 miles; Life of Cast-iron Tire 27,000 miles; Life of Truckwheel 50,000 miles; Diameter of Truckwheel 30 inches; Side rod Brasses run 30,000 miles; Cylinders 18 × 24 inches; Roller Valves (Bristol's Patent) 30,000 miles, Lap $\frac{5}{8}$ inch, Lead 1-16 inch, Full Throw $4\frac{3}{4}$ inches; Steam Pipe in boiler 4 inches, S. B. $4\frac{3}{4}$; Exhaust 4 to 5 inches; Boiler 46 inches Diameter, 160 Flues 2 inches Diameter, 10 feet 2 inches long; Boiler largest Diameter 54 inches; Heating surface in Flues 850 square feet; Life of Iron Flues 128,000 miles; Total Heating Surface 967 square feet; Fire Box, inner side sheets $\frac{1}{4}$ inch thick, good for 129,000 miles; Crown Sheet Iron 5-16 inches, outside $\frac{3}{8}$ inches; Water Grate Bars 2 inches outside, $1\frac{1}{2}$ inside, $2\frac{1}{8}$ clearance, $4\frac{1}{2}$ fall; will last as long as fire box; Grate Area 64 square feet; Fire box $8\frac{1}{2} \times 7\frac{1}{2}$ feet; Boiler Iron $\frac{3}{8}$ and $\frac{1}{2}$ inches double riveted; Water Space $3\frac{1}{2}$ inches; Smoke Box 34 inches long from flue sheet, Stack $20\frac{1}{2}$ inches inside; Spark Arrester Corrugated Iron $\frac{1}{8}$ inch thick at bottom, 1-16 at top; Pump $3\frac{1}{2} \times 11$ inches; Grate bars 3-16 and 9-16 inches space; 168 bars.

On track—between Machinery Gallery and Agricultural Hall. Class 64.

PHILBRICK, JOHN D., Boston, Mass.

Reports, as Superintendent of the Public Schools of Boston, 33 Semi-Annual, 12 Quarterly, and 5 Special, in 7 vols.

Educational. Class 6.

PHILLIPS (M. V.) AND CO., Providence, R. I.

787. Fringing Machine.

Machinery, 1. *Class* 58.

PHŒNIX CARD AND PAPER CO., New York City.

Printers' Cards.

Industrial, D. 3. *Class* 10.

PICKERING (T. R.) AND CO., Portland, Conn.
819. Steam Engine Governors with Improved Automatic Stop Motion, and Speed Adjuster. For use of Commission on Engines in U.S. Section.
Machinery, 3. *Class* 54.

PIRZ, ANTHONY (Carniola Chemical Works), Long Island City, N. Y.
597. Sugar of Lead.
Industrial, C. 2. *Class* 47.

PITTSFIELD, MASSACHUSETTS, FIRST GRAMMAR SCHOOL. George H. Cary, Principal.
Scholars' Work, 2 vols.
Educational. Class 6.

PLUMMER, M., Portland, Oregon.
Dried Fruits and Vegetables.
Agricultural, 3. *Class* 73.

POESCHEL AND SCHERER, Hermann, Mo.
Wines.
Agricultural, Central. Class 75.

POLK, L. L., Raleigh, N. C.
Raw Silks and Jute.
Agricultural, 3. *Classes* 34 *and* 46.

PONEMAH MILLS, Providence, R. I.
Bleached and Brown Cotton Goods.
Industrial, B. Class 30.

PORTER AND MOWBRAY, Winona, Minn.
Flour.
Agricultural, Central. Class 69.

PORTSMOUTH HIGH SCHOOL, Portsmouth, New Hampshire. S. W. Clarke, Principal.
1. Various School Documents. 2. Scholars' Work; (a) Essays and Examination Papers from the Four Classes; (b) Plan and Surveying Papers.
Educational. Class 7.

POSTAWKA (LOUIS) AND CO., Cambridgeport, Mass.
665. Adjustable Piano Stool.
Industrial, B. 3. *Class* 13.

POTTS, S. C., Columbus Co., N. C.
Grey Moss.
Agricultural, Central. Class 46.

POWHATTAN MILLS, Providence, R. I.
412. Brown and Bleached Cottons.
Industrial, B. 2. *Class* 30.

PRANG (L.) AND CO., Boston, Mass.
676. Books, Chromos, and Lithographs.
Industrial, B. 3. *Class* 9.

PRATT, WHITNEY AND CO., Hartford, Conn.
954. The Gardner Machine Gun.
Industrial, D. 3. *Class* 68.

PRETTY, GRIME AND CO., Philadelphia, Pa.
412. Grey and Mourning Prints.
Industrial, B. 2. *Class* 30.

PRINGLE, C. G., Charlotte, Varmont.
Woods and Barks.
Agricultural, Central. Class 44.

PROVIDENCE STEAM MILLS, Providence, R. I.
412. Bleached Cotton Goods.
Industrial, B. 2. *Class* 30.

PROVIDENCE TOOL CO., Providence, R. I.
117. Fire Arms. Breech-loading Military and Sporting Rifles, with their various parts, from a rough to a finished state.
Industrial, C. 3. *Classes* 40 *and* 68.

PUBLIC LIBRARY, Boston, Mass.
674. Samples of Binding Library Documents, Administrative Blanks, &c., illustrative of the workings of the Institution.
Industrial, B. 3, *and Educational. Classes* 6 *and* 9.

PUBLISHERS' WEEKLY (F. LEYPOLDT), New York City.
331. Book Trade Journal, Bibliographical Publications.
Industrial, B. 3. *Class* 9.

PULLMAN PALACE CAR CO., Chicago, Ill.
626. One Model Palace Sleeping Car; One full-sized Palace Sleeping Car.
Model Palace Sleeping Car, outside, near Main Building Industrial, D. 3. *Class* 64.

PUTNAM'S (G. P.) SONS, New York City.
Text-books and Books of Reference, 30 vols.
Educational. Classes 6 *and* 7.

RANDOLPH, Theo. F., Morristown, N. J.
158. Ditching Machine, worked by Horse-power, and used for making Excavations and Ditches.
Near Agricultural Building. Class 76.

RATHBONE, SARD and CO., Albany, N. Y.
194. Stoves and Ranges.
Industrial, C. 3. *Class* 27.

RAUCHFUSS, G., New York City.
311. Wigs, Toupees, and Hair Work.
Industrial, B. 2. *Class* 38.

RAY, Jno. P., Honeoye, N. Y.
American Merino Wools.
Agricultural, Central. Class 46.

RAYNALD, John, Philadelphia, Pa.
354. Black Ink.
Industrial, B. 3. *Class* 10.

READING HARDWARE CO., Reading, Pa.
296. Household and other Hardware.
Industrial, D. 2. *Class* 43.

REDLICH MANUFACTURING CO., Chicago, Ill.
791. India Rubber Saturated Faucets, Corking Machines, Plugs, Vents, Bungs, Mallets, Labels, &c.
Agricultural, Central. Class 75.

REDPATH, F. W., Stony Creek, Conn.
949. Granite for Building and Monumental purposes.
Agricultural, Central. Class 43.

REED, JOHN VAN D., New York City.
439. Canvas Hose, single and multiply, seamless. Circular Loom for weaving multiply Fabric.
Industrial, D. 2, *and Machinery*, 2. *Classes* 54 *and* 67.

REMINGTON (E.) AND SONS, Ilion, N. Y.
495. Breech-loading Fire Arms and Ammunition, Pistols, Shot-guns, Hunting and Target Rifles, and ammunition for same. Military Breech-loading and Magazine Rifles and Metallic Cartridges.
Industrial, C. 3. *Classes* 40 *and* 68.

RESTORFF, BETTMANN AND CO., New York City.
341. Leather Dressing and Bronze.
Industrial, C. 2. *Class* 47.

REYNOLDS, A. J., Chicago, Ill.
76. Fruit Evaporating Machine and Evaporated Fruit.
Agricultural, 1. *Classes* 73 *and* 76.

RHODE ISLAND STATE DEPARTMENT OF PUBLIC INSTRUCTION. Thos. B. Stockwell, Commissioner, Providence.
1. "History of Education in Rhode Island," 1636-1876, 1 vol. 2. Report of the Commissioner, 1877, 1 vol. 3. Common School Manual, 1873. 4. Chart of Normal School Course of Study. 5. Picture of Providence, High School. 6. Scholars' Work, 25 vols.
Educational. Classes 6 and 7.

RICAND, JNO., St. James' Parish, La.
Perique Tobacco and Cigarettes.
Agricultural, Central. Class 46.

RICHARDS, CHAS. B., Hartford, Conn.
812. Indicator, for Steam Engines, for presentation to the "Conservatoire des Arts et Métiers," Paris, at close of Exhibition.
Machinery, 3. *Class* 54.

RICHARDSON, D. M., Detroit, Mich.
652. Wheat Polisher and Separator.
Agricultural, 1. *Class* 52.

RICHARDSON AND ROBBINS, Dover, Del.
Canned Tongue, Game, Meats, and Preserved Fruits.
Alimentary, 3. *Classes* 72 *and* 73.

RICHMOND, INDIANA, PUBLIC SCHOOLS.
Scholars' Work, 7 vols.
Educational. Classes 6 *and* 7.

RICKETTS, J. H., Newburg, N. Y.
Wines.
Agricultural, Central. Class 75.

RIEGEL (J. L.) AND SONS, Riegelsville, N. J.
Manilla Wrapping Paper.
Industrial, D. 3. *Class* 10.

RITCHIE (E. S.) AND SONS, Boston, Mass.
Set of Physical Apparatus for Higher Elementary Schools, with a case.
Educational. Class 6.

ROBERTS AND CO., New Orleans, La.
Cypress Doors, &c.
Agricultural, Central. Class 44.

ROBINSON, R., St. Louis, Mo.
Boots and Shoes.
Machinery, 1. *Class* 38.

ROBINSON, S. E., Newark, N. J.
Wrenches and Braces.
Industrial, D. 3. *Class* 43.

ROGERS, C. B., Philadelphia, Pa.
Diamond Wheat.
Agricultural, Central. Class 69.

ROGERS (C. B.) AND Co., New York City.
87. Wood Working Machinery. Band and Scroll Saws. Planer.
Machinery, 3. *Class* 59.

ROGERS, JOHN, New York City.
Statuary for School Decoration, four pieces.
Educational. Class 6.

ROME, GEORGIA, FEMALE COLLEGE. J. M. M. Caldwell, President.
Scholars' Work; Drawings, one Portfolio.
Educational. Class 7.

ROSETTI, FRANCISCO, New York City.
241. Rowlocks for Boats.
Industrial, C. 1. *Class* 67.

ROSS, JOSEPH L., Boston, Mass.
5 School Desks.
Educational. Class 6.

ROSS, JOSHUA, Muscogee, Indian Terr.
Dressed Buckskin.
Agricultural, Central. Class 49.

ROSS, ROSALIE, Muscogee, Indian Terr.
Hominy.
Agricultural, Central. Class 69.

RUBBER CUSHIONED AXLE CO., New York City.
88. Axles and Wheels.
Agricultural, 3. *Class* 62.

RUBBER STEP MANUFACTURING CO., Boston, Mass.
553. Rubber covered Carriage and Car Steps.
Agricultural, 3. *Class* 62.

RUDY, CHARLES, Paris.
Method of teaching the Chinese Mandarin Language, 1 vol.
Educational. Class 7.

RUSSELL AND ERWIN MANUFACTURING CO., New Britain, Conn.
An assortment of all the various qualities and styles of Builders' Cabinet, and General Hardware and Tools, including a great variety of Door Locks, Padlocks, Handles, Bolts, Hinges, Fire-irons, Pulleys,

Sheaves, Chisels, Screw-drivers, Wrenches and general Tools. Artistic fittings in Statuary, Bronze, Nickel, Gold, and Enamel, for Door, Window, and Fire-place Decoration.

Industrial, D. 2. *Classes* 11, 25, 43, 59, *and* 66.

RUSSELL AND HALL, New Orleans, La.
Perique Tobacco.
Agricultural, Central. *Class* 46.

REUTER AND ALLEY, Boston, Mass.
Ales.
Alimentary, 3. *Class* 75.

SABIN (J.) AND SONS, New York City.
Dictionary of American Books, A—H, 9 vols.
Industrial, B. 3. *Class* 9.

SACHSE (F.) AND SON, Philadelphia, Pa.
45. Shirts.
Industrial, C. 3. *Class* 37.

SADLIER, W. H., New York City.
Text Books for Elementary Instruction.
Educational. Class 6.

ST. LOUIS BEEF CANNING CO., St. Louis, Mo.
324. Canned Meats.
Alimentary, 2. *Class* 72.

ST. LOUIS PUBLIC SCHOOLS, Missouri. William T. Harris, Superintendent.
1. Set of City School Reports. 2. Kindergarten Material. 3. Set of Blanks and Forms.
Educational. Class 6.

ST. LOUIS STAMPING CO., St. Louis, Mo.
511. Granite Iron-Ware for Household Use.
Industrial, C. 3. *Class* 43.

SALINA PUBLIC SCHOOLS, Kansas. T. D. Fitzpatrick, Superintendent.
1. Scholars' Work. 2. Rules and Regulations.
Educational. Class 6.

SANAZIN, P. E., New Orleans, La.
800. Snuff, Tobacco, and Chewing Perique Tobacco.
Agricultural, Central. Class 46.

SARONY, NAPOLEON, New York City.
433. Photographic and Crayon Portraits and Sketches.
Industrial, B. 2. *Class* 12.

SCHAFFER, WM., New York City.
507. Square Pianoforte.
Industrial, B. 3. *Class* 13.

SCHEPP, LEOPOLD, New York City.
Desiccated Cocoanut.
Alimentary, 3. *Class* 74.

SCHERMERHORN'S SCHOOL AGENCY, New York City.
Various Articles of School Apparatus.
Educational. Class 6.

SCHIEFFELIN (W. H.) AND CO., New York City.
565. Soluble Coated Pills.
Industrial, C. 2. *Class* 47.

SCHIEREN, CHAS. A., New York City.
201. Leather Belting.
Industrial, D. 3. *Class* 54.

SCHIMMUT (J. O.) AND CO., Philadelphia, Pa.
73. Fruit Butter.
Agricultural, Central. Class 73.

SCHLESINGER, LEO AND CO., New York City.
567. Tin and Mechanical Toys.
Industrial, D. 2. *Class* 42.

SCHOFIELD, WILLIAM S., Philadelphia, Penn.
A System of Universal Education.
Educational. Class 6.

SCHOLL, BRUNO, Chicago.
Engraving on Pine Wood for Theatrical Advertising.
Industrial, B. 3. *Class* 9.

SCHOOL OF DESIGN OF THE UNIVERSITY OF CINCINNATI, Cincinnati, Ohio. Benn Pitman, Director.
Photographs of Pieces Carved by Girls.
Educational. Class 6.

SCHULTZ, SOUTHWICK AND CO., New York City.
638. Sole Leather.
Industrial, C. 1. *Class* 49.

SCHUMACHER, FERDINAND, Akron, Ohio.
Various Products from Cereals.
Agricultural, Central. Class 69.

SCHUTTLER, PETER, Chicago, Ill.
422. Farm, Freight and Plantation Waggons.
Agricultural, 3. *Class* 62.

SCOTT (T. SEYMOUR) AND BRO., Philadelphia.
722. Flour Sack and Building Paper, also Paper Oil-cloth.
Industrial, B. 2. *Class* 21.

SCOTT (WILLIAM) AND CO., Indianapolis, Ind.
White and Yellow Corn, White Rye.
Agricultural, Central. Class 69.

SCRIBNER, ARMSTRONG AND CO., New York City.
326. 1. Text Books for Elementary and Secondary Instruction, 27 vols. 2. Set of Drawing Cards. Miscellaneous Books, Maps.
Educational and Industrial, B. 3. *Classes* 6, 7, *and* 9.

SCRIBNER AND CO., New York City.
Periodicals.
Industrial, B. 3. *Class* 9.

SEABURY AND JOHNSON, New York City.
720. Pharmacopœia, Medicinal and Surgical Plasters.
Industrial, D. 2. *Class* 47.

SEAVEY, LAFAYETTE W., New York City.
245. Photographs illustrating Photographic Backgrounds, and Accessories.
Industrial, B. 3. *Class* 12.

SEEFELDT, WM. F., Philadelphia, Pa.
658. Band Instruments.
Industrial, B. 3. *Class* 13.

SEIDLE, F., Mechanicsburg, Pa.
120. Finished Wheels, Spokes, Hubs, Fellocs, Shafts, and Poles.
Agricultural, 3. *Class* 62.

SEMPLE (SAMUEL) AND SONS, Mount Holly, N. J.
44. Spool Cotton.
Industrial, *B*. 2. *Class* 30.

SEWARD (M.) AND SON, New Haven, Conn.
218. Carriage Hardware.
Agricultural, 3. *Class* 43.

SHARP'S RIFLE CO., Bridgeport, Conn.
655. Breech-loading Military and Sporting Rifles.
Industrial, *C*. 3. *Class* 40.

SHAWMUT MANUFACTURING CO., Boston, Mass.
Leatherette, Imitation of Paper.
Industrial, *D*. 3. *Class* 10.

SHEBLE AND FISHER, Philadelphia.
629. Forks, Drags, Cast-steel Rakes, &c.
Industrial, *D*. 3. *Class* 51.

SHELDON AND CO., New York City.
Text Books for Elementary, Secondary, and Superior Instruction, 61 vols.
Educational. *Classes* 6 *and* 7.

SHELDONS AND SLOSSON, Rutland, Vt.
Blue Mottled Marble.
Agricultural, 3. *Class* 43.

SHELTON TOBACCO CURING CO., Asheville, N. C.
Tobacco.
Agricultural, *Central*. *Class* 46.

SHERWOOD (G. W.) AND CO., Chicago, Ill.
Text Books for Elementary Instruction, and one Writing Chart.
Educational. *Class* 6.

SHERWOOD, PETER M., New York City.
209. Automatic Bottling, Wiring, Capping, and Washing Machines; Measuring Funnel, Filtering Machines, "Water Bath" Boiler, Pill Filling and Counting Machines, Automatic Powder Filling Machine, Canoe Pulverizing Mortar, Anti-breakage Rubber Mallet, Heat-saving Grate, &c.
Agricultural, 3. *Class* 61.

SHIELDS, J., Brooklyn, Mass.
Fishing Tackle, as Silk Lines and Artificial Flies.
Industrial, B. 3. *Class* 45.

SHONINGER (B.) PIANO AND ORGAN CO., New Haven, Conn.
243. Universal, Upright, or Boudoir Pianofortes. Universal, Cymbella, Chorale, Capella, Eureka and Paragon Organs.
Industrial, B. 3. *Class* 13.

SHORT, F. W., New London, Conn.
756. Silex, Glass-sand, Feldspar, Quartz, Kaolin.
Agricultural, 2. *Class* 43.

SHORT, H. B., Flemington, N. C.
Cypress Shingles.
Agricultural, Central. Class 44.

SHRIVER AND CO., New York City.
765. Presses, for Copying Letters. 578. Iron Frames for Pianofortes.
Industrial, D. 3, *and Machinery*, 2. *Classes* 10 *and* 13.

SHUFELDT, H. G., Chicago, Ill.
Whiskey. Grain used in Manufacture of Alcoholic Spirits, Specimens of Materials from the Intermediate Stages of the Process of Manufacture and Finished Product.
Agricultural, Central. Class 75.

SIBOLE (J. L.) AND CO., Philadelphia, Pa.
692. Illustrated Books.
Industrial, B. 3. *Class* 9.

SIMON (EDWARD) AND BROS., Newark, N. J.
342. Trunks, Travelling Bags, and Materials for same.
Industrial, C. 1. *Class* 41.

SLATER COTTON CO., Providence, R. J.
449. Bleached Sheetings.
Industrial, B. 2. *Class* 30.

SLATER, JOHN F., Jewett City, Conn.
449. Cheviot Shirtings.
Industrial, B. 2. *Class* 30.

SLOAN, THOMAS J., New York City.
981. Automatic Machine for making Wood Screws.
Machinery, 1. *Class* 55.

SLOTE, WOODMAN AND CO., New York City.
262. Blank and Scrap Books.
Industrial, B. 3. *Class* 10.

SMITH (ALEXANDER) AND SON, CARPET CO., Yonkers, N. Y.
895. Carpeting.
Machinery, 3. *Class* 21.

SMITH AND EGGE MANUFACTURING CO., Bridgeport, Conn.
858. Locks of Various Kinds, Automatically made Window Sash Chains, Specialties in Hardware, and Light Metallic Goods in General.
Machinery, 3. *Class* 43.

SMITH, GERMAN, Winchester, Va.
Sumac (Leaf and Ground), Quercitron Bark (Ground and in Stick).
Agricultural, Central. *Class* 44.

SMITH'S HOMŒOPATHIC PHARMACY, New York City.
414. Homœopathic Preparations; "Alkethupta," a Preparation of Chocolate.
Industrial. *Class* 47.

SMITH, JOSHUA, Chicago, Ill.
292. Photographs.
Industrial, B. 2. *Class* 12.

SMITH (THOS. P.), MCIVOR AND CO., Charleston, S. C.
Sea Island Cotton.
Agricultural, Central. Class 46.

SMITH, WALTER, Boston, Massachusetts.
Publications and Appliances relating to Industrial Art Education; (a) General Publications; (b) Text Books, Manuals, Apparatus; (c) Examples for Instruction in Advanced Subjects.
Educational. Classes 6 *and* 7.

SNELL MANUFACTURING CO., Fiskdale, Mass.
594. Augers, Car Bits, Auger Bits, Inclinations, Pocket Levels.
Industrial, D. 3. *Class* 43.

SNYDER BROS., New York City.
118. Snyders' "Little Giant" Steam Engines, One and Two Horse Power.
Machinery, 1. *Class* 54.

SOCOLA, ANGELO, New Orleans, La.
Rice.
Agricultural, Central. Class 69.

SOLLERS, S. D. AND CO., Philadelphia, Pa.
283. Children's and Infants' Shoes and Slippers.
Industrial, C. 3. *Class* 38.

SOUTH CAROLINA STATE DEPARTMENT OF PUBLIC INSTRUCTION. Hugh S. Thompson, Superintendent, Columbia.
Set of Reports of the Superintendent.
Educational. Class 6.

SOUTHERN ILLINOIS NORMAL UNIVERSITY, Carbondale, Illinois. Robert Allyn, President.
1. Drawings and Examination Papers. 2. Plans and Views of Buildings.
Educational. Class 6.

SOWER, POTTS AND CO., Philadelphia, Penn.
Text Books for Elementary Instructions, Wall Maps for School Purposes.
Educational. Class 6.

SPEER (ALEX.) AND SONS., Pittsburg, Pa.
333. Ploughs and Cultivators.
Agricultural, 3. *Class* 76.

SPENCER, CHAS. A., Geneva, N. Y.
Microscopic Lenses.
Industrial, B. 2. *Class* 15.

STANLEY RULE AND LEVEL CO., New Britain, Conn.
312. Carpenters' Tools.
Industrial, D. 3. *Classes* 15 *and* 59.

STEARNS (JOHN N.) AND CO., New York City.
265. Manufactured Silk.
Industrial, B. 2. *Class* 34.

STEIGER, E., New York City.
1. Encyclopædia of Education. 2. Text Books and Apparatus for Primary and Secondary Instruction. 3. Kindergarten Material and Globes.
Educational and Industrial, B. 3. *Classes* 6, 7, *and* 9.

STELTZ, J. GEO., Indianapolis, Ind.
Clover, Millet, Grass Seed and Pop Corn.
Agricultural, Central. Class 69.

STEPHENS PATENT VISE CO., New York City.
161. Vises and Attachments, and Planer Chucks.
Machinery, 3. *Class* 55.

STEPHENSON (JOHN) CO., New York City.
42. Three Street Railway Cars.
Outside, between Machine Gallery and Agricultural Hall. Class 64.

STETSON, JOHN B., Philadelphia.
246. Soft and Stiff, Fur, Felt Hats.
Industrial, C. 3. *Class* 38.

STEVENS (THE J. E.) CO., Cromwell, Conn.
696. Iron Toys.
Industrial, D. 3. *Class* 42.

STEWART, S. N., Paris, France.
Umbrella and Camp Chairs and Stools.
Industrial, C. 3. *Class* 17.

STIEFF, CHAS. M., Baltimore, Md.
459. Upright, Grand Pianos.
Industrial, B. 3. *Class* 13.

STILES (E. W.) AND CO.
Marine and Stationary Inkstands.
Industrial, D. 3. *Class* 10.

STODDARD (JNO. W.) AND CO., Dayton, Ohio.
418. Self-operating Hay Rake, Grain Drill, and Broad Cast Seeder.
Agricultural, 3. *Class* 76.

STOW FLEXIBLE SHAFT CO., Philadelphia.
195. Flexible Shafts with Drill Presses, Wood Boring Tools, Stone Finishing Plant, Metal, &c., Polishing Brushes and other Tools to be operated by Flexible Shafts.
Machinery, 2. *Class* 54.

STRATTON AND CULLUM, Meadville, Pa.
200. Hay Loader.
Agricultural, 3. *Class* 76.

STRIEDINGER AND DOERFLINGER, Brooklyn, N. Y.
139. Model of Blasting Apparatus, as used for the great explosion at "Hell Gate," New York.
Industrial, D. 2. *Class* 39.

STUDEBAKER BROS.' MANUFACTURING CO., South Bend, Ind.
408. Waggons for Farm, Pleasure, and General Usage.
Agricultural, 3. *Class* 62.

STUDWELL, SANGER AND CO., New York City.
937. Finished Leather.
Industrial, C. 1. *Class* 49.

TAINTOR BROS., MERRILL AND CO., New York City.

1. Text Books for Elementary Instruction, 29 vols. 2. Set of fifteen Writing Books. 3. Five School Records, and various Appliances.

Educational. Class 6.

TATHAM AND BROS., New York City.

707. Shot.

Industrial, C. 3. *Class* 40.

TAYLOR, B. C., Dayton, Ohio.

353. Hay Rakes.

Agricultural, 3. *Class* 76.

TAYLOR MANUFACTURING CO., Westminster, Md.

202. One 10-horse power vertical portable "Boss Clipper" Farm Engine; one 10-horse horizontal portable "Dry Steam" Farm Engine; one 20-horse power horizontal semi-portable Engine; one "Empire" Thrashing Machine; two Engines for use of Commission; one model of Clipper Engine, $\frac{1}{8}$-horse power.

Agricultural, 1. *Classes* 54 *and* 76.

TAYLOR, NICHOLS AND CO., Springfield, Mass.

Papeteries.

Industrial, D. 3. *Class* 10.

TAYLOR (ROBERT) AND CO., Philadelphia.
228. Black Lead Crucibles, Covers, Dippers, Skimmer's Retorts for Distilling Zinc from Silver, &c.
Industrial, D. 3. *Class* 43.

TEMISON AND SON, Philadelphia, Pa.
Butter.
Alimentary, 3. *Class* 71.

TERRE HAUTE PUBLIC SCHOOLS, Indiana.
Scholars' Work, 1876, 1st and 7th years.
Educational. Class 6.

TEXAS STATE DEPARTMENT OF PUBLIC INSTRUCTION.
1. Reports of the Superintendent. 2. Catalogues.
Educational. Class 6.

THAYER, J. S., Albany, N. Y.
666. Mowing, Raking, Reaping, Harvesting, and Binding Machines.
Agricultural, 2. *Class* 76.

THE "ALDINE" (ART JOURNAL), New York City.
Specimens of fine Wood Engravings.
Industrial, B. 3. *Class* 5.

THOMAS (SETH) CLOCK CO., New York City.
Tower, Church, House, and Marine Clocks.
Industrial, C. 1. *Class* 26.

THOMPSON AND BROWN, Boston, Mass.
1. Eaton and Bradbury's Series of Mathematics. 2. Philbrick's Tablets, and various Text Books.
Educational. Classes 6 *and* 7.

THOMPSON, NATHAN, Brooklyn, N. Y.
Universal Window, Door, and Blind Fasteners.
Machinery, 1. *Class* 43.

THOMSON (A.) AND CO., New Orleans, La.
Sugar, Molasses, and Syrup.
Agricultural, Central. Class 74.

THORNE, McFARLANE AND CO., New York City.
429. Sole Leather.
Industrial, C. 1. *Class* 49.

THURBER (H. K.) AND F. B. AND CO., New York City.

47. Edible Cotton Seed Oil, Cotton Seed, Cotton Seed Oil for lubricating purposes. Canned Meats, Fish, Fruits and Vegetables. Sugar, Glucose, and Syrups, made from Maize (Corn), Oats and Oatmeal, Rye and Rye-flour, Hominy, Corn, and Corn Meal, Barley, Wheat and Cracked Wheat, Wheat Flour, Wax and Honey.

Alimentary, 3. *Classes* 46, 69, 71, 72, 73, *and* 74.

TIFFANY AND CO., New York City.

689. Jewellers, Gold and Silversmiths, and Art Metal Workers. Makers of Diamond and Gem Jewellery. Gold and Enamelled Jewellery of special and original designs. Silver of 925-1000 quality spoons, forks, and articles for domestic use. Art Work in Silver and other metals. Repoussé work of high quality. Incrustated work. Chromatic decoration of silver. Damascened work of Steel, Gold, Silver, and Copper. Hammered Silver decorated with alloys of various metals and their patines. Mixed or laminated metals, consisting of Gold, Silver, Copper, and their alloys. Electro deposited works. Exact reproduction in Gold of the Curium Treasures, Cesnola Collection and reproductions in all metals of Museum articles. The "Bryant Vase" reproduced in Nickel Silver.

Industrial, *B.* 2. *Classes* 29, 39, *and* 43.

TILDEN AND CO., New York City.

90. Crude Materials of American Medicinal Plants, such as roots, leaves, barks, berries, &c. Their active principles, solid extracts, and fluid extracts. Fine chemicals and pharmaceutical preparations. Pills, Sugar and Gelatine Coated, Lozenges.

Industrial, *C.* 2. *Class* 47.

TILDEN (WM.) AND STOKES, New York City.

776. Varnishes.

Industrial, *C.* 2. *Class* 47.

TILT (B. B.) AND SON, Paterson, N. J.
140. Jacquard Power Silk Loom.
Machinery, 2. *Class* 57.

TISCH, DAVID, Oakland, Cal.
Pampas Grasses.
Agricultural, Central. Class 46.

TOBIN, JOSEPH F., New York City.
370. Manufactured Whalebone.
Industrial, D. 1. *Class* 45.

TODD, ALBERT M., Nottowa, Michigan.
Essential Oils; Peppermint, Spearmint, Erigeron, &c.
Agricultural, Central. Class 47.

TOPEKA, KANSAS, PUBLIC SCHOOLS. Butterfield, Superintendent.
1. Complete Set of Superintendent's Reports. 2. Scholars' Work, 2 large vols. 3. Views of School-houses.
Educational. Classes 6 *and* 7.

TOWER, JOHN J., New York City.
48. Iron Planes, Wrenches, Padlocks, &c.
Industrial, C. 3. *Class* 43.

TOWER, WM. S., South Hingham, Mass.
Wooden Toys.
Industrial, C. 2. *Class* 42.

TRAINER (DAVID) AND SONS, Linwood, Pa.
449. Omega Tickings.
Industrial, B. 2. *Class* 30.

TRIGG, GEO. P., New York City.
Boneless Codfish.
Alimentary, 3. *Class* 72.

TROUVELOT, LEOPOLD, Cambridge, Mass.
Five framed, Lithographed copies of Astronomical Drawings. 2 Planispheres.
Educational. Class 7.

TROWBRIDGE, W. H., Danville, Va.
Smoking Tobacco.
Agricultural, Central. Class 46.

TRUMP BROTHERS, Wilmington, Del.

257. Foot Power Scroll Saws, and Specimens of Work made with them.

Machinery, 3. *Class* 59.

TRUSTEES OF THE PEABODY FUND. Barnas Sears, Secretary; Staunton, Virginia.

Reports of the Secretary.

Educational. *Class* 6.

TUCHFARBER (FRANK) AND COMPANY, Cincinnati, Ohio.

492. Enamelled, and Porcelain finished, Iron Show Cards.

Agricultural, 3. *Class* 18.

TUNYOAP MANUFACTURING CO., Boston, Mass.

716. Tunyoap; a dressing intended to render Leather soft, more durable, and as perfectly waterproof as India-rubber, and takes a fine polish, with blacking.

Industrial, *C.* 1. *Class* 47.

TUSTEN, H. T., Abbeville, S. C.

Stalk of Cotton, and Seed Cotton.

Agricultural, *Central.* *Class* 46.

TYPE WRITER COMPANY, New York City.

621. Six "Type Writers," used for printing Correspondence.

Machinery, 1. *Class* 61.

HRIG (Jos.) BREWING CO., St. Louis, Mo.
Lager Beer.
Alimentary, 3. *Class* 75.

UNDERWOOD BELTING CO., Tolland, Conn.
809. Main Belts, for use of Commission. One 24 inches wide; one 18 inches wide in use in Machinery Gallery. Two Angular Belts in Agricultural Hall.
Class 49.

UNDERWOOD, John, Hoboken, N. J.
561. Chemical Safety Paper, or Safety Checks, for Banking Purposes.
Industrial, B. 3. *Class* 10.

UNION METALLIC CARTRIDGE CO., Bridgeport, Conn.
851. Cartridges (Metallic).
Industrial, D. 1. *Class* 68.

UNION PAPER MANUFACTURING CO., Holyoke, Mass.
Writing Paper.
D. 3. *Class* 10.

UNITED STATES BUREAU OF EDUCATION, Washington, D. C. John Eaton, Commissioner.
1. Publications of the Bureau: Annual and Special Reports, Circulars of Information, &c., 12 vols.; Four Pamphlets. 2. Twenty Maps, showing certain facts respecting American Education in 1876. 3. Statistical Charts, showing the Educational Condition in

1876 of 38 States and 190 Cities of the United States. 4. Printed Catalogues of Public Libraries in the United States; Specimen Collection from the Library of the United States Bureau of Education, 138 vols.

Educational. Classes 6, 7, *and* 8.

UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C. W. G. Le Duc, Commissioner.

Collection of Fibres and Materials employed in the Manufacture of Paper. Collection of Vegetable Fibres employed in the Manufacture of Textile Fabrics. Wools. Plaster Casts of Fruits and Vegetables. Insects injurious to the principal Crops of the Country. American Grains and their Products. Essential Oils. 407 Specimens of Woods of Forest Trees. One large Plank of Repwood, and Photographs of some of the most Useful and Ornamental Trees of America. Bat and Fish Guano. South Carolina Phosphates. Dried Blood, &c.

Agricultural, Central. Classes 44, 46, 47, 51, 69, 73, *and* 83.

UNITED STATES EGG DESICCATING CO., New York City.

Crystallized Eggs.

Alimentary, 3. *Class* 71.

UNITED STATES NAVAL ACADEMY, Annapolis, Maryland. Rear-Admiral C. R. P. Rodgers, Superintendent.

1. Registers and Regulations. 2. History of the Academy, 1 vol. 3. Two Photographic Views of the Buildings, in a portfolio.

Educational. Class 7.

UNITED STATES REGULATION FIREARMS CO., New York City.

Springfield Muskets.

Industrial, C. 3. *Class* 68.

UNITED STATES TREASURY DEPARTMENT, Washington, D. C. John Sherman, Secretary.

Specimens of Engraving and Printing of United States Money and Bonds.

Industrial, B. 2. *Class* 9.

UNITED STATES WINDMILL, ENGINE, AND PUMP CO., Batavia, Ill.
569. Two Windmills.
Outside, near South end of Agricultural Hall. Class 76.

UNIVERSAL PEACE UNION, Philadelphia.
925. Peace Plough, made from Swords used in War.
Agricultural, 3. *Class* 76.

UNIVERSITY PUBLISHING CO., New York City.
392. 1. Text-books for Elementary and Secondary Instruction, 16 vols. 2. Wall Map of South America.
Educational and Industrial, B. 3. *Classes* 6, 7, *and* 9.

UPHAM, TUCKER AND CO., Boston, Mass.
Cotton Fabrics.
Industrial, B. 2. *Class* 30.

URBANA WINE CO., Hammondsport, N. Y.
Sparkling Wines.
Agricultural, Central. Class 75.

VALENTINE AND CO., New York City.
Varnishes.
Industrial, C. 2. *Class* 47.

VALENTINE, M. S., Richmond, Va.
Meat Juices.
Alimentary, 2. *Class* 72.

VAN ANTWERP, BRAGG AND CO., Cincinnati, Ohio.
Text Books.
Educational. *Class* 6.

VANDERBURGH, WELLS AND CO, New York City.
Specimen Fonts of English and German faces of Wood Type, Wooden Rulers, Corners, Logotypes, Indexes, &c.; Specimen Book of Borders, Types, &c.; also one Black Walnut 36-case Cabinet; one 16-case Full Galley Top Cabinet; one 20-case $\frac{3}{4}$-Flap Top Cabinet; one 28-case "Eagle" Stand.
Machinery, 3 (*American Printing Office*). *Class* 60.

VAN NOSTRAND, D., New York City.
Publications relating to Scientific and Technological subjects.
Educational. *Class* 8.

VASSAR COLLEGE, Poughkeepsie, New York City. W. T. Forbes, General Superintendent.
1. Catalogue, 1876-77. 2. Historical and Descriptive Publications, 2 vols. and 1 pamphlet; 3. Astronomical Negative and Drawings. 4. Views of the College Buildings.
Educational. *Class* 7.

VERGNOLE, Jos., New Orleans, La.
Cordials and Bitters.
Alimentary, 3. *Class* 75.

VERMONT STATE DEPARTMENT OF PUBLIC INSTRUCTION. Randolph. Edward Conant, Superintendent.
Reports of the Superintendent.
Educational. Class 6.

VICTOR SEWING MACHINE CO., Middleton, Conn.
Drill Chucks and Micrometer Callipers.
Machinery, 3. *Class* 58.

VINCENT, Geo. A., New Orleans, La.
Honey, Liquid and in Comb.
Agricultural, Central. Class 74.

VINELAND PUBLIC SCHOOLS, New Jersey. P. H. Halbrook, Superintendent.
Illustrations of a System of Examining Pupils.
Educational. Classes 6 *and* 7.

VIRGINIA STATE DEPARTMENT OF PUBLIC INSTRUCTION, Richmond. W. H. Ruffner, Superintendent.
Annual Reports of the Superintendent.
Educational. Class 6.

VON HOVEN, Louis, New York City.
625. Automatic Check Register, or a perfect Cash-control, for use in Restaurants or any place where a Check on Cash Receipts is needed.
Industrial, D. 2. *Class* 15.

ALKER AND DOUGHERTY, Philadelphia, Pa.
Bat Guano.
Agricultural, Central. Class 51.

WALKER, OAKLEY AND CO., Chicago, Ill.
755. Sole Leather.
Industrial, C. 1. *Class* 49.

WALLACE BROS., Statesville, N. C.
750. Medicinal Plants, Herbs, Flowers, &c.
Agricultural, Central. Class 47.

WALLACE, SHIPPEN, Philadelphia, Pa.
Oil of Cedar.
Agricultural, Central. Class 46.

WALTON BROS., New York City.
700. Lanterns and Lamps, Air Leader Telegraph Pipe, Rigging Thimbles, Navy Galley, Steam Radiator, Conductors' Punch, &c.
Industrial, D. 3. *Class* 43.

WALZ, ALPHONSE, New Orleans, La.
Bitters.
Agricultural, Central. Class 74.

WAMSUTTA MILLS, New Bedford, Mass.
Bleached and Brown Shirtings, Cambrics, &c.
Industrial, B. 2. *Class* 30.

WARDER, MITCHELL AND CO., Springfield, Ohio.
206. Mowing and Reaping Machines, Single and Combined.
Agricultural, 1. *Class* 76.

WARDWELL MANUFACTURING CO., St. Louis, Mo.
633. Two-Spool Lock-Stitch Sewing Machines.
Machinery, 1. *Class* 58.

WARE, WILLIAM AND CO., Boston, Mass.
1. Text-Books for Elementary and Secondary Instruction. 2. Sixteen Reading and Four Arithmetical Charts.
Educational. Classes 6 *and* 7.

WARNER BROS., New York City.
52. Patent Corsets.
Industrial, C. 3. *Class* 37.

WARNER (WM. R.) AND CO., Philadelphia.
95. Sugar-Coated Pills, and Pharmaceutical Products.
Industrial, C. 2. *Class* 47.

WARREN, S. EDWARD, Newton, Mass.
1. Text-Books for Instruction in Descriptive Geometry and Stereotomy, 12 vols. 2. Students' Work in Drawing, 134 sheets in portfolio.
Educational. Class 7.

WASHINGTON (D. C.) PUBLIC SCHOOLS. J. Ormand Wilson, Superintendent.
1. Reports of the Superintendent, 1870-1878, 7 vols. 2. Text and Reference Books; (a) English Language and Literature, 25 vols., 1 chart; (b) Mathematics, 9 vols.; (c) History and Science, 11 vols.; (d) Music, Drawing, and Penmanship, 13 vols., 5 charts; (e) Clycopædias, 5 vols.; (f) Miscellaneous, 14 vols. 3. Scholars' Work, 1878, 55 vols. 4. School Map of the City. 5. Plans and Views of School Buildings in a portfolio. 6. Blanks for School Use, 4 vols.; 3 portfolios. 7. Model of the Henry Schoolhouse.
Educational. Classes 6 *and* 7.

WASHINGTON AND JEFFERSON COLLEGE, Washington, Penn. George P. Hays, President.
1. Scholars' Work, examination papers on the Constitution of the United States. 2. Eight Views of College Buildings in a portfolio.
Educational. Class 7.

WATERBURY BUTTON CO., Waterbury, Conn.
808. Metallic Buttons, Army, Navy, and other Special Designs.
Industrial, D. 3. *Class* 37.

WATERVILLE PUBLIC SCHOOLS, Kansas. D. E. Saunders, Superintendent.
Scholars' Work.
Educational. Class 6.

WAUREGAN MILLS, Providence, R. J.
449. Brown and Bleached Cotton Goods.
Industrial, B. 2. *Class* 30.

WAVERLEY MILLS,[1] P. Adams, Burnside, Conn., Woolworth and Graham, Agents, N. Y.
Book Printing Paper.
Industrial, D. 3. *Class* 10.

WEBSTER AND DILLINGHAM, New Orleans, La.
Flour.
Agricultural, Central. Class 69.

WELLESLEY COLLEGE, Wellesley, Massachusetts. Ida Howard, President.
1. Water-Colour View of the College and Grounds. 2. Descriptive Pamphlet.
Educational. Class 7.

WELSH AND LEA, Philadelphia.
50. Bolts and Nuts for Vehicles.
Industrial, D. 1. *Class* 43.

WESTINGHOUSE AIR-BRAKE CO., Pittsburgh, Pa.
51. Automatic Air-Brakes for Railroad Cars. In use in the United States, England, France, Belgium, Germany, and other countries and colonies.
Machinery, 3. *Class* 64.

[1] The paper on which this Catalogue is printed is a specimen of this exhibit.

WESTON, BYRON, Dalton, Mass.
Record and Account Book Papers.
Industrial, D. 3. *Class* 10.

WESTON DYNAMO-ELECTRIC MACHINE CO., Newark, N. J.
207. Process of Electroplating, Electrotyping, &c., and Electric Light Telegraphing, by Means of Electricity from Motion.
Machinery, 3. *Class* 50.

WESTON, N., San Francisco, Cal.
Photographs.
Industrial, B. 2. *Class* 12.

WEST VIRGINIA, STATE OF.
Limestone, Ores, Coal, Cannel Coal, Coke, Ochre, Sandstone, Freestone, Hydraulic Cement, Grain and Corn, Woods, Willows and Veneers, Leaf Tobacco.
Agricultural, Central. Classes 43, 44, 46, *and* 69.

WEST VIRGINIA STATE DEPARTMENT OF PUBLIC INSTRUCTION. W. K. Pendleton, Superintendent.
State Documents.
Educational. Class 6.

WEYMAN BROS., Pittsburgh, Pa.
Snuff, showing Process of Manufacture; Cut and Dry Smoking Tobacco.
Agricultural, Central. Class 46.

WHARTON, Jos., Philadelphia, Pa.
660. Nickel and Cobalt Ores and Products.
Industrial, C. 2. *Class* 43.

WHEELER (F.) AND CO., Ohio.
983. Rapid Dressing Slate Machinery.
Machinery, 1. *Class* 43.

WHEELER AND WILSON MANUFACTURING CO., New York City. Manufactory, Bridgeport, Conn.
845. Machines for General Use, Attachments for Machines and Cabinet Work, Sewing Machines used for

Industrial Education, Machines for Sewing Books, Specimens of Work made with Machines.
Machinery, 1. *Classes* 7, 36, 44, 54, 58, 61.

WHEELOCK, JEROME, Worcester, Mass.
737. Horizontal Non-Condensing Steam-Engine, 17 inches bore of Cylinder, 48 inches stroke of Piston, with Wheelock's Patent Automatic Variable Cut-off Mechanism; Wheelock's Patent Packing for Pistons. This Engine is used for the transmission of motive power for the United States, Norwegian and Swedish Departments.
Machinery, 3. *Class* 54.

WHITCOMB (G. H.) AND CO., Worcester, Mass.
Envelopes made by Machinery.
Industrial, D. 3. *Class* 10.

WHITE (CHAS. T.) AND CO., New York City.
165. Pharmaceutical Chemicals.
Industrial, C. 2. *Class* 47.

WHITE, DUNCAN, Guilford Co., N. C.
Wheat.
Agricultural, Central. *Class* 69.

WHITE, SAMUEL S., Philadelphia.
49. Porcelain Teeth, Dental Instruments, and Chairs, Foils, &c.
Industrial, B. 1. *Class* 14.

WHITE, W. F., Ashburnham, Mass.
Painters' Palette.
Industrial, B. 3. *Class* 10.

WHITING PAPER CO., Holyoke, Mass.
556. Fine Papers.
Industrial, B. 2. *Class* 10.

WHITMAN, STEPHEN F., Philadelphia, Pa.
Chocolate and Confections.
Alimentary, 3. *Class* 74.

WHITNEY (A.) AND SONS, Philadelphia.
627. Car Wheels.
F. 1. *Class* 43.

WHITNEY (F. G.) AND CO., North Attleboro', Mass.
721. Gilt Jewellery.
Industrial, C. 2. *Class* 39.

WHITON, D. E., West Stafford, Conn.
715. Lathe Chucks, Gear Cutters, Centring Machines.
Machinery, 2. *Class* 55.

WICKERSHAM, J. P., Lancaster, Penn.
Set of Pennsylvania School Journal.
Educational. Class 6.

WILCOX, JAS. M., Philadelphia.
725. Paper, for Bank-notes, &c.
Industrial, B. 3. *Class* 10.

WILCOX (W. J.) AND CO., New York City.
Lards, Oils, and Stearine. Capacity of works per year 450,000 tierces of lard, 28,000 tierces of stearine, 28,000 barrels of oil.
Alimentary, 2. *Class* 71.

WILEY (JOHN) AND SONS. New York City.
Scientific Text Books, 35 vols.
Industrial, B. 3, *and Educational. Classes* 8 *and* 9.

WILEY AND RUSSELL MANUFACTURING CO., Greenfield, Mass.
259. Screw Plates, Bolt Cutting Machines, Friction Pulleys, Drilling Machines, Tire Upsetters, &c.
Agricultural, 1. *Class* 55.

WILKENS, H., Baltimore, Md.
Leaf Tobacco, Smoking Tobacco, and Snuff.
Agricultural, Central. Class 46.

WILLIAMS, DAVID, New York City.
214. Files of the "Iron Age," "Metal Worker,"

"Metallurgical Review." Maps and Books showing the Mineral Resources and Metallurgy of the U. S. 1,200 price lists of metal manufactories.
Industrial, B. 2. *Class* 9.

WILLIAMS, R. S., New York City.
657. Various Preparations of Gold for filling Teeth.
Industrial, B. 2. *Class* 14.

WILLIAMS (THOS. C.) AND CO., Richmond, Va.
Virginia Leaf Tobacco, Specimens in various Stages of Preparation for use.
Agricultural, Central. *Class* 46.

WILLIMANTIC LINEN CO., Hartford, Conn.
735. Spool Cotton.
Industrial, B. 2. *Class* 30.

WILLISTON SEMINARY, Easthampton, Mass. J. M. Whiton, Principal.
1. Catalogues and Examination Papers, 1 vol. 2. Scholars' Work, 5 Sheets of Drawings. 3. 10 Views, exterior and interior of the Seminary.
Educational. *Class* 7.

WILSON AND BLYE, New York City.
340. Oil Tanks or Safes, for exhibition and for use of Commission.
Near American Engine, Machinery, 3. *Class* 43.

WILSON, D. H. AND CO., New York City.
671. Corn Brooms, Woodenware, and House Furnishing Goods.
Industrial, D. 3. *Class* 44.

WILSON, GEORGE, Brooklyn, N. Y.
93. Surgical, Invalid, and Recumbent Easy Chair.
Industrial, B. 1. *Class* 14.

WILSON PACKING CO., Chicago, Ill.
164. Canned Meats.
Alimentary, 2. *Class* 72.

WILSON (WALTER J.) AND CO., Philadelphia.
Crackers, Cakes and Biscuits.
Alimentary, 3. *Class* 70.

WIMAN, E., New York City.
548. Cash Register Stamp.
Machinery, 3. *Class* 43.

WINCHELL, S. R., Chicago, Ill.
National Educational Weekly, 1877, 1 vol.
Educational. Class 6.

WING, D. AND BRO., Rochester, N. Y.
Dried Fruits and Vegetables.
Agricultural, Central. Class 73.

WINN (MRS. MABEL E.), New York City.
619. Specimens of Ornamental Needle Work, made with Wheeler and Wilson's Sewing Machine.
Machinery, 1. *Class* 36.

WISCONSIN JOURNAL OF EDUCATION, 17 vols.
Educational. Class 6.

WISCONSIN STATE DEPARTMENT OF PUBLIC INSTRUCTION, Madison. W. C. Whitford, Superintendent.
1. Executive and Legislative Documents, 3 vols. 2. Set of State Reports, 19 vols. 3. Reports of Public Schools and State University, 5 vols. 4. Scholars' Work, Examination Papers and Drawings, 19 vols. 5. Catalogues of Normal Schools and State University, 5 vols. 6. Wisconsin "Journal of Education," 17 vols. 7. Histories of Colleges and Education in Wisconsin Statistics, &c., 8 vols. 8. Plans, Photographs, and Maps. 9. Registers, Forms and Blanks, 2 vols. 10. Miscellaneous, 17 vols.
Educational. Classes 6, 7, *and* 8.

WISCONSIN STATE NORMAL SCHOOL, Oshkosh, Wis.
1. Scholars' Work, Examination Papers, 6 vols. 2. Catalogues, 1 vol.
Educational. Class 6.

WISCONSIN STATE NORMAL SCHOOL, Platteville, Wis.

1. Scholars' Work, Examination Papers, 5 vols. 2. Catalogues, 1 vol.

Educational. Class 6.

WISCONSIN STATE NORMAL SCHOOL, River Falls.

Scholars' Work, 2 vols. of Examination Papers.

Educational. Class 6.

WISCONSIN STATE NORMAL SCHOOL, Whitewater, Wis. W. F. Phelps, Principal.

Scholars' Work, Examination Papers, Maps, and Freehand Drawings, 6 vols.

Educational. Class 6.

WISCONSIN STATE UNIVERSITY, Madison, Wis. L. Bascom, President.

1. Regents' Reports, Catalogues, and History, 4 vols. 2. Scholars' work, 1 Topographical Map, and 2 vols. of Papers and Drawings. 3. Plans and Views of the University, 1 vol. 4. Essays by the Faculty, 1 vol.

Educational. Class 8.

WITHINGTON AND COOLEY MANUFACTURING CO., Jackson, Mich.

313. Garden and Farming Tools.

Industrial, D. 3. *Class* 51.

WOGLOM, W. H., New York City.

Paper Clips and Files.

Industrial, D. 3. *Class* 10.

WOLF BROS. AND KEECH, Centreville, Mich.

Essential Oils of Peppermint, Spearmint, Wormwood, Tansy, and Erigeron.

Agricultural, Central. Class 47.

WOOD, WALTER A., Hoosick Falls, N. Y.

94. Harvester and Self Binder, Self-rake Controllable Reapers, 1 and 2-horse Grass Mowing Machines, 1 and 2-horse Combined Mowing and Reaping Machines.

Agricultural, 1. *Class* 76.

WOOD, WILLIAM ANSON, Albany, N. Y.
666. Mowing and Reaping Machine, manufactured by the Eagle Mowing and Reaping Machine Co.
Agricultural, 1. *Class* 76.

WOOD (WILLIAM) AND CO., New York City.
Brown's Grammars, 3 vols.
Educational. Classes 6 *and* 7.

WOODS (GEORGE) AND CO., Boston, Mass.
One Desk Organ.
Educational. Class 6.

WOODWARD, A., Memphis, Tenn.
387. Fancy and Fine-grained Woods.
Agricultural, Central. Class 44.

WOODWARD AND DWIGHT, St. Louis, Mo.
Flour.
Agricultural, Central. Class 69.

WOODWARD, W. W., Cartersville P. O. Barton County, Ga.
Cotton Seed Sower.
Agricultural, Central. Class 76.

WOODWARD SEMINARY, Morristown, N. J.
Examination Papers.
Educational. Class 6.

WOOLWORTH AND GRAHAM, New York City.
Collection Exhibit of Paper Manufacturing and kindred Industries, representing the Productions of Twenty-eight Firms.
Industrial, D. 3. *Class* 10.

WORCESTER FREE INSTITUTE, Worcester, Mass.
C. O. Thompson, Principal.
1. Catalogues. 2. Model Drawing Stand. 3. "Worcester Illlustrated," Theses, and Miscellany, 3 vols. 4. Heliotype Views of the Buildings. 5. Set of Models for Drawing.
Educational. Class 7.

WORTH, Mrs. J. I., Fayetteville, N.C.
Preserved Fruits.
Agricultural, Central. Class 73.

WRIGHT, Carroll D., Boston, Mass.
Census of the State of Massachusetts, 1875, 4 vols.
Educational. Class 6.

WRIGHTS (Joshua) and SONS, Philadelphia, Pa.
Minced Meats in Cans.
Alimentary, 3. *Class* 72.

WYETH (John) and BROTHER, Philadelphia.
586. Pharmaceutical Preparations, Elixirs, Compressed Powders, Saccharated Pepsin, Dialysed Iron, &c.
Industrial, C. 2. *Class* 47.

YALE LOCK CO., Stamford, Conn.
320. Section of Post Office Locks, Bronze Hardware, Time and Bank Locks.
Industrial, D. 3. *Class* 43.

YOUNG AND BENNETT, North Attleboro', Mass.
528. Gilt Watch and Neck Chains.
Industrial, C. 2. *Class* 39.

YOUNG (D. M.) AND CO., Boston, Mass.
208. Extract of Bark.
Industrial, C. 2. *Class* 47.

YOUNG (J. S.) AND CO., Hanover, Pa.
Quercitron Bark; bolted, ground, and extract. Flavine in various Stages of Manufacture.
Agricultural, Central. *Class* 44.

YVARD, AUGUST, New York City.
142. Scientific Toys of Demonstration.
Industrial, D. 2. *Class* 42.

ZALLEE, John C., St. Louis, Mo.
789. Suit of Men's Wearing Apparel.
Machinery, 1. *Class* 38.

ZELL, T. ELWOOD, DAVIS and CO., Philadelphia.
General Encyclopædia, suitable for reference in schools, 2 vols., and other Books.
Educational and Industrial, *B.* 3. *Classes* 6 *and* 9.

ZENTMAYER, Charles, Philadelphia.
831. Microscopical Preparations.
Industrial, *B.* 3. *Class* 8.

ZENTMAYER, Jos., Philadelphia.
788. Microscope, with accessories.
Industrial, *B.* 3. *Class* 15.

ZIPP, Philip C., Baltimore, Md.
753. Wax Calf Skins, and Boarded Grain Kips, Oak Tanned.
Industrial, *C.* 1. *Class* 49.

CLASSIFIED CATALOGUE

OF THE

UNITED STATES EXHIBITORS AT THE UNIVERSAL EXPOSITION OF 1878 AT PARIS.

Group I.—Works of Art.

Class 5.—Engravings and Lithographs.

FORBES, Edwin, New York City.
Etchings on Copper, Life Studies of the Great Army of the Union.
See also Class 9.

MULLER, Richard A., Brooklyn, L. I.
Specimens of Wood Engravings for Illustrated Books.

THE "ALDINE" (ART JOURNAL), New York City.
Specimens of fine Wood Engravings.

UNITED STATES TREASURY DEPARTMENT, Washington.
Specimens of Bank-note Engraving.

See also Art Catalogue, page 241.

Group 2.—Education and Instruction. Apparatus and Processes of the Liberal Arts.

Class 6.—Education of Children; Primary Instruction; Instruction of Adults.

ADAMS, BLACKMER AND LYON PUBLISHING COMPANY, Chicago, Ill.
School Text Books.

ADRIAN PUBLIC SCHOOLS, Michigan. W. H. Payne, Superintendent.
1. Scholars' Work, Examination Papers, 1 vol.
2. History of the Public Schools, 1 vol.

ALABAMA STATE DEPARTMENT OF PUBLIC INSTRUCTION.
Reports of the Superintendent of Public Instruction.

ALEXANDRIA PUBLIC SCHOOLS, Virginia. R. L. Carnes, Superintendent.
Superintendent's Report, 1876-'77, 1 vol.

AMERICAN METRIC BUREAU, Boston, Mass. Melville Dewey, Secretary.
1. Publications, 7 vols.
2. Three Charts.
3. Cabinet containing 72 pieces of Apparatus.

AMERICAN PRINTING HOUSE FOR THE BLIND, Louisville, Ky.
1. Raised and Dissected Map of the United States. 2. Publications in three styles of type, 59 vols. 3. Spell-

ing and Composition Frame. 4. Writing Guides for the Pencil. 5. Apparatus to Illustrate New Methods of making Stereotype Plates with great ease and cheapness.

Classes 6 *and* 9.

ANDREWS (A. H.) AND CO., Chicago, Ill.
1. School Desk. 2. Noiseless Slates, and other Apparatus for Schools.

APPLETON (D.) AND CO., New York City.
Text Books for Elementary Instruction.
See also Classes 7 *and* 9.

ATCHISON PUBLIC SCHOOLS, Kansas. I. C. Scott, Superintendent.
1. Scholars' Work. 2. View of High School Building.
Classes 6 *and* 7.

BALTIMORE CITY SCHOOLS, Maryland. H. E. Shepherd, Superintendent.
Annual School Report, 1877, 1 vol.

BARNARD, HENRY, Hartford, Conn.
"The American Journal of Education," 1856-1877, 26 large octavo vols.

BARNES (A. S.) AND CO., New York City.
Text Books for Elementary Instruction.
See also Classes 7 *and* 9.

BELL, ALEXANDER GRAHAM, Boston, Mass.
1. Seven Charts and one Book, to explain the Universal System of Visible Speech, invented by Alexander Melville Bell. 2. Six volumes in Visible Speech Symbols, prepared by pupils in the School of Vocal Physiology.

BICKNELL, T. W., Boston, Mass.
1. National and New England Journals of Education in bound volumes. 2. Current issues of the same, and of "Primary Teacher" and "Good Times."

BOSTON PUBLIC SCHOOLS, Boston, Mass. Samuel Eliot, Superintendent.

1. City School Reports, 22 vols. 2. Scholars' Work, 84 vols., and 15 portfolios. 3. Complete set of Text Books used in Elementary and High Schools: (a) Latin and Greek, 24 vols.; (b) French and German, 24 vols.; (c) English Language and Literature, 70 vols.; (d) History, 31 vols.; (e) Pure Mathematics, 16 vols.; (f) Science and Applied Mathematics, 25 vols; (g) Music, Drawing, and Writing, 8 vols.; (h) Cyclopædias, 38 vols.; (i) Miscellaneous, 4 vols. 4. Barnard's Journal of Education, 24 vols. 5. Blanks, 7 vols. 6. Plans of High School Building. 7. Charts of School Statistics. 8. Photographs of School Regiment.

Classes 6 *and* 7.

BOWDITCH, HENRY P., Boston, Mass.

Statistics on the Growth of Children, 1 vol.

BOWKER, R. R., New York City.

"American Library Journal," vols. 1 and 2.

BREWSTER AND KNOWLTON, Boston, Mass.

Cabinet of Minerals for use in Higher Elementary Schools.

BURNS, ELIZA B., New York City.

Books relating to Spelling Reform.

BUTLER (J. H.) AND CO., Philadelphia.

1. Text Books for Elementary Instruction, 29 vols.
2. Two sets of Outline Maps.

CAMBRIDGE PUBLIC SCHOOLS, Mass. Francis Cogswell, Superintendent.

Scholars' Work, illustrating method of Sentence-Writing, 2 vols.

Classes 6 *and* 7.

CHARLESTOWN PUBLIC SCHOOLS, Indiana.

Reports, and other Printed Matter.

CHETOPA PUBLIC SCHOOLS, Kansas.
Scholars' Work, 1 Map.

CHICAGO PUBLIC SCHOOLS, Illinois. Duane Doty, Superintendent.
1. Scholars' Work: (a) Entire Grade Work, of Eighth Grade, 3 vols.; (b) Entire Class Work, 44 vols.; (c) Selected Papers in English, German, and Drawing, 26 vols.; (d) Special Work, 16 vols. 2. Set of School Blanks, 1 portfolio.
Classes 6 *and* 7.

CINCINNATI PUBLIC SCHOOLS, Ohio. J. B. Peaslee, Superintendent.
Scholars' Work: (a) Penmanship; Normal, High, Intermediate and District Schools, 13 vols.; (b) District Schools, various subjects, 25 vols.; (c) Intermediate Schools, various subjects, 24 vols.; (d) High Schools, various subjects, 7 vols.; (e) Normal School, 1 vol.
Classes 6 *and* 7.

CLARK AND MAYNARD, New York City.
Anderson's series of School Histories, and various other Text Books.
Classes 6 *and* 7.

CLAXTON, REMSEN AND HAFFELFINGER, Philadelphia.
Scientific Text Books for Elementary Instruction.
See also Classes 7 *and* 9.

COLLINS AND BROTHER, New York City.
Text Books for Elementary Instruction.
See also Classes 7 *and* 8.

CONNECTICUT STATE DEPARTMENT OF PUBLIC INSTRUCTION, Connecticut. B. G. Northrop, Secretary of State Board of Education, New Haven.
Set of Reports of the Board of Education, 12 vols.

COWPERTHWAIT AND CO., Philadelphia.
1. Series of Text Books for Elementary Instruction.
2. Set of Charts for teaching the first steps in reading.
See also Class 7.

DANNER, JOHN, Canton, Ohio.
Revolving Book Case.

DAVID, J. A., New York City.
Universal Stencil Plate: To trace with a single plate all the letters of the alphabet (capital and small), all the numerals, all the signs of punctuation, as well as an innumerable variety of ornaments, in a correct and geometrical manner.

DAVIS, BARDEEN AND CO., Syracuse, N. Y.
1. Examination Questions of the Regents of the State of New York, 10 vols. 2. Educational Publications, 10 vols. 3. Educational Blanks.
Classes 6 *and* 9.

DAVIS (ROBERT S.) AND CO., Boston, Mass.
Greenleaf's Mathematical Series, and Miscellaneous Publications, 25 vols.

DELAWARE STATE DEPARTMENT OF PUBLIC INSTRUCTION. J. H. Grous, Superintendent, Smyrna.
Annual Report, 1 vol., with Statistics of 1877.

DENVER PUBLIC SCHOOLS, Colorado.
Set of City School Reports, 3 vols.

DUBUQUE BOARD OF EDUCATION, Iowa. Thomas Hardie, Secretary.
Last School Report, 1 vol.

EDGERTON, N. H., Philadelphia.
1. Set of Chemical Apparatus, suitable for Higher Elementary Schools.
2. Stereopticon and Transparencies for Instruction in Natural History.

ELASTIC CHAIR TIP COMPANY, Abington, Mass.
Specimen Chair with Elastic Tips.

ELDREDGE AND BROTHER, Philadelphia.
Text Books for Schools of different grades.

EVANSVILLE PUBLIC SCHOOLS, Indiana.
Scholars' Work, 1st to 8th School Years, 13 vols.

FAIRBANKS (E. AND T.) AND CO., St. Johnsbury, Vt.
Metric Scales and Weights for use in Schools, with case.
See also Classes 10, 15, 50, 54, 64, *and* 76.

GAINES, S. M., Cambridge, Mass.
Gaines' Chemical Alphabet.

GILMAN AND CO., Boston, Mass.
Series of Writing Books.

GINN AND HEATH, Boston, Mass.
1. Text Books for Elementary Instruction: 2. Music Books and Charts by L. W. Mason.
See also Class 7.

GODDARD, N. C., Boston, Mass.
Adams' Synchronological Chart.

HAMMETT (J. L.) AND CO., Boston, Mass.
1. Publications for Elementary Education, 5 vols.
See also Class 7.

HAMPTON NORMAL AND AGRICULTURAL INSTITUTE, Hampton, Virginia. S. C. Armstrong, Principal.
1. Scholars' Work: (a) Examination Exercises, 8 vols.; (b) Specimens of Sewing, Knitting, and Printing; (c) Models of Boats and Furniture, and carved imitations of Marine Animals. 2. Views of the School: (a) Oil Painting of the Buildings; (b) Fifty-seven Photographs and Plans. 3. Publications: (a) "Southern Workman," 1877; (b) "Hampton and its Students," 1 vol.; (c) Cabin and Plantation Songs. 4. Blanks and Regulations.

HARPER AND BROTHERS, New York City.
Text Books for Elementary Instruction.
See also Classes 7 *and* 9.

HENKLE, W. D., Salem, Ohio.
"Ohio Journal of Education," from January, 1876, 1 vol.

HIAWATHA, KANSAS, PUBLIC SCHOOLS. R. L. Iles, Superintendent.

1. Scholars' Work, 1 vol. 2. View of a Schoolhouse.

HIGGINSON, T. W., Newport, Rhode Island

1. "School History of the United States," 1 vol. 2. "Mound Builders," 1 vol.

HOLT (HENRY) AND CO., New York City.

Text Books for Elementary Instruction.

See also Classes 7 *and* 9.

HOWE SCALE CO., Rutland, Vt.

Metric and English Standard Scales for Schools.

See also Classes 10, 50, 52, 54, 64, 68, *and* 76.

ILLINOIS STATE ASYLUM FOR FEEBLE-MINDED CHILDREN, Lincoln, Ill. C. T. Wilbur, Superintendent.

1. Scholars' Work—Twenty-three Embroidered Articles.
2. Photographs of Buildings and Pupils.

ILLINOIS STATE DEPARTMENT OF PUBLIC INSTRUCTION, Springfield. S. M. Etter, Superintendent.

Reports of the Superintendent.

ILLINOIS STATE NORMAL UNIVERSITY, Normal, Ill. E. C. Hewett, President.

1. Reports, Catalogues, and History of the University, 2 vols. 2. Papers, illustrating the work in certain departments, 2 vols.

INDIANA STATE DEPARTMENT OF PUBLIC INSTRUCTION, Indianapolis. J. H. Smart, Superintendent.

1. Set of State Reports. 2. Model of a Schoolhouse. 3. Reports of the Superintendent of Crawford County. 4. Manuals of the Public Schools, from Hendricks and Montgomery Counties.

INDIANA STATE NORMAL SCHOOL, Terre Haute, Indiana.

Scholars' Work, 1st and 2nd classes, 3 vols.

INDIANAPOLIS, INDIANA, PUBLIC SCHOOLS.
Scholars' Work:—1. Penmanship, 2nd to 8th years, 7 vols. 2. High School Examination Papers, 18 vols.
Classes 6 *and* 7.

IOWA STATE DEPARTMENT OF PUBLIC INSTRUCTION, Desmoines. C. N. von. Coellu, Superintendent.
1. School Laws and Decisions, 1 vol. 2. Biennial Reports of the Superintendent, 1870-1877, 4 vols.

IVISON, BLAKEMAN, TAYLOR AND CO., New York City.
Text Books for Elementary Instruction. Four series of Copy Books and Spencerian Writing Charts.
See also Classes 7 *and* 9.

JASLIN, GILMAN, Boston, Mass.
One Celestial and Three Terrestrial Globes.

JOHNSON, A. J., New York City.
1. General Encyclopædia, suitable for Reference in Schools, 4 vols. 2. Universal Atlas.

KANSAS STATE DEPARTMENT OF PUBLIC INSTRUCTION. A. B. Lemmon, Superintendent, Topeka.
1. Set of State Reports. 2. Sets of City Reports. 3. Catalogues and Courses of Study of Colleges, High and Graded Schools. 4. Album of Photographs of Schoolhouses. 5. Volumes of Scholars' Work.
Classes 6 *and* 7.

LA PORTE PUBLIC SCHOOLS, La Porte, Ind.
School Reports.

LAWRENCE PUBLIC SCHOOLS, Kansas. Boles, Superintendent.
1. Set of Superintendent's Annual Reports. 2. Scholars' Work. 3. View of School Building.

LEAVENWORTH PUBLIC SCHOOLS, Kansas. John Whewell, Superintendent.
1. City School Reports, 8 vols. 2. Scholars' Work; Examination Papers. 3. Views, exterior and interior, of Schoolhouses.

LEIGH, EDWIN, Brooklyn, New York.
Appliances for Teaching the First Steps in Reading by Leigh's Pronouncing Type: (a) Reading Books, 9 vols. (b) Miscellaneous Publications, 7 vols. (c) Illustrative Charts, 5 sets.

LEE AND SHEPHARD, Boston, Mass.
Text Books.

LINCOLN, D. F., Boston, Mass.
School Hygiene in the United States: Reports, Papers, and various Documents bound in one volume.

LIPPINCOTT (J. B.) AND CO., Philadelphia.
1. Text Books for Elementary Instruction. 2. Set of Cutler's Anatomical Charts.
See also Classes 7 *and* 9.

LOCKWOOD, BROOKS AND CO., Boston, Mass.
Clarke's Astronomical Lantern.

LOUISIANA STATE DEPARTMENT OF PUBLIC INSTRUCTION. R. M. Lusher, Superintendent, New Orleans.
Report of the Superintendent for 1877. 1 vol.

MARYLAND STATE DEPARTMENT OF PUBLIC INSTRUCTION. M. A. Newell, Superintendent, Baltimore.
1. State Reports, 1865-1877, 13 vols. 2. State Normal School Catalogues and Examination Questions. 3. Report of State Board of Health on Public Charities. 4. Set of Reports of Maryland Institute. 5. Set of Reports of Peabody Institute. 6. Set of Reports of Institution for the Blind.

MASON, LUTHER WHITING, Boston, Mass.
1. Music Publications. 6. Books, and four Sets of Charts and Manuscript Music Books. 2. System of Musical Instruction in Japanese.

MASSACHUSETTS STATE DEPARTMENT OF PUBLIC INSTRUCTION. J. W. Dickinson, Secretary of the State Board of Education, Boston.

1. Complete Set of Reports of the Board of Education, 34 vols. 2. Complete Set of the Annual Reports of the School Committees of the 344 Municipalities of the State for 1875, 12 vols. 3. Educational Map of the State.

Classes 6 *and* 7.

MASSACHUSETTS STATE NORMAL SCHOOL, Bridewater, Mass. A. G. Boyden, Principal.

1. History and Alumni Record of the School, 1 vol. 2. Plans and Views of the School Buildings.

MEADVILLE, PENNSYLVANIA, PUBLIC SCHOOLS. S. P. Bates, Superintendent.

Scholars' Work, Free-Hand Drawings, from nine classes, each representing one year of advancement, 1 Portfolio.

MERRIAM, G. AND C., Springfield, Mass.

Webster's Dictionaries.

Classes 6 *and* 9.

MILSOM, H., Buffalo, N. Y.

Ozone Generator and Diffuser.

MILWAUKEE PUBLIC SCHOOLS, Wisconsin. James McAlister, Superintendent.

1. City School Reports, 3 vols. 2. Scholars' Work in District, High, and Normal Schools, 120 vols. 3. Six School Plans. 4. Photographs of School Houses, one Portfolio. 5. Statistical Statement in frame. 6. Blanks and Forms, 1 vol.

Classes 6 *and* 7.

MINNESOTA STATE DEPARTMENT OF PUBLIC INSTRUCTION, St. Paul. D. Burt, Superintendent.

Reports of the Superintendent.

MISSISSIPPI STATE DEPARTMENT OF PUBLIC INSTRUCTION, Jackson. J. A. Smith, Superintendent.

Report of the Superintendent for 1876, 1 vol.

MUNROE, Lewis B., Boston, Mass.
System of Teaching the First Steps in Reading, Illustrated by Charts and Books.

NATIONAL ASSOCIATION FOR PUBLISHING LITERARY AND MUSICAL WORKS FOR THE BLIND.
Publications.

NEW HAMPSHIRE STATE DEPARTMENT OF PUBLIC INSTRUCTION. Charles A. Downs, Superintendent. Concord.
1. Report of the Superintendent, 1 vol. 2. Registers and Blanks.

NEW HAVEN, CONNECTICUT, PUBLIC SCHOOLS. Ariel Parish, Superintendent.
City School Reports, 1 vol.

NEW JERSEY STATE DEPARTMENT OF PUBLIC INSTRUCTION. E. A. Apgar, Superintendent, Trenton.
1. Superintendent's Reports. 2. Scholars' Work. 3. Views of Schoolhouses; Interior School Views with Stereoscope.

NEWTON PUBLIC SCHOOLS, Mass. E. Hunt, Superintendent.
Scholars' Work.
Classes 6 *and* 7.

NEW YORK CITY PUBLIC SCHOOLS. Henry Kiddle, Superintendent.
City School Reports, 1875.

NEW YORK STATE DEPARTMENT OF PUBLIC INSTRUCTION. Neil Gilmour, Superintendent, Albany.
Set of Reports of the Superintendent.

OHIO STATE DEPARTMENT OF PUBLIC INSTRUCTION. J. J. Burns, Commissioner, Columbus.
1. Reports of the Commissioner, 9 vols. 2. "History of Education in Ohio," 1 vol. 3. "Higher Education," 1 vol. 4. "History of Public Schools," 1 vol.

OLATHE, KANSAS, PUBLIC SCHOOLS. A. Carroll, Superintendent.
Scholars' Work.

OTTAWA, KANSAS, PUBLIC SCHOOLS. Wm. Wheeler, Superintendent.
1. Scholars' Work, 2 vols. 2. View of a Schoolhouse.

PAOLA, KANSAS, PUBLIC SCHOOL. G. A. Copley, Superintendent.
Scholars' Work.

PARMENTER AND WALKER, Wattham, Mass.
White and Coloured School Chalk Crayons.

PATTERSON, Philadelphia.
Hardware for School Use.

PENNSYLVANIA STATE DEPARTMENT OF PUBLIC INSTRUCTION. J. P. Wickersham, Superintendent, Harrisburg.
1. State Reports. 2. School Laws. 3. Official Blanks and Forms.

PENNSYLVANIA STATE NORMAL SCHOOL, West Chester, Pa. G. L. Maris, Principal.
1 Scholars' Work, Examination Papers in Algebra and Geometry, 2 vols. 2. Catalogues.

PERKINS INSTITUTION AND MASSACHUSETTS ASYLUM FOR THE BLIND, Boston, Mass. M. Anagnos, Superintendent.
1. Scholars' Work, twelve articles of dress and household use, by Laura Bridgman and other pupils. 2. Text Books and Maps in raised characters, 5 vols. 3. Howe Memorial, 1 vol.
Classes 6 *and* 9.

PETERSON (T. B.) AND BROTHERS, Philadelphia.
1. Text Books, 3 vols. 2. One Elocutionary Chart.

PHELPS, W. F., Whitewater, Wisconsin.
"Handbook for Teachers," 1 vol.

PHILADELPHIA, PENN. PUBLIC SCHOOLS. H. W. Hallowell, Secretary, Board of Education.

1. City School Reports, 6 vols. 2. Plans of Normal School Building.

PHILBRICK, JOHN D., Boston, Mass.

Reports, as Superintendent of the Public Schools of Boston, 33 Semi-Annual, 12 Quarterly, and 5 Special, in 7 vols.

PITTSFIELD, MASSACHUSETTS, FIRST GRAMMAR SCHOOL. George H. Cary, Principal.

Scholars' Work, 2 vols.

PUBLIC LIBRARY, Boston, Mass.

Samples of Binding Library Documents, Administrative Blanks, &c., illustrative of the workings of the Institution.

Classes 6 *and* 9.

PUTNAM'S (G. P.) SONS, New York City.

Text Books and Books of Reference, 30 vols.

Classes 6 *and* 7.

RHODE ISLAND STATE DEPARTMENT OF PUBLIC INSTRUCTION. Thos. B. Stockwell, Commissioner, Providence.

1. "History of Education in Rhode Island," 1636-1876, 1 vol. 2. Report of the Commissioner, 1877, 1 vol. 3. Common School Manual, 1873. 4. Chart of Normal School Course of Study. 5. Picture of Providence, High School. 6. Scholars' Work, 25 vols.

Classes 6 *and* 7.

RICHMOND, INDIANA, PUBLIC SCHOOLS.

Scholars' Work, 7 vols.

Classes 6 *and* 7.

RITCHIE (E. S.) AND SONS, Boston, Mass.

Set of Physical Apparatus for Higher Elementary Schools, with a case.

ROGERS, JOHN, New York City.

Statuary for School Decoration, four pieces.

ROSS, JOSEPH L., Boston, Mass.
5 School Desks.

SADLIER, W. H., New York City.
Text Books for Elementary Instruction.

ST. LOUIS PUBLIC SCHOOLS, Missouri. William T. Harris, Superintendent.
1. Set of City School Reports. 2. Kindergarten Material. 3. Set of Blanks and Forms.

SALINA PUBLIC SCHOOLS, Kansas. T. D. Fitzpatrick, Superintendent.
1. Scholars' Work. 2. Rules and Regulations.

SCHERMERHORN'S SCHOOL AGENCY, New York City.
Various Articles of School Apparatus.

SCHOFIELD, WILLIAM S., Philadelphia.
A System of Universal Education.

SCRIBNER, ARMSTRONG AND CO., New York City.
1. Text Books for Elementary Instruction. 2. Set of Drawing Cards.
See also Classes 7 *and* 9.

SHELDON AND CO., New York City.
Text Books for Elementary Instruction, 61 vols.
Classes 6 *and* 7.

SHERWOOD (G. W.) AND CO., Chicago, Ill.
Text Books for Elementary Instruction, and one Writing Chart.

SMITH, WALTER, Boston, Mass.
Publications and Appliances relating to Industrial Art Education: (a) General Publications; (b) Text Books, Manuals, Apparatus; (c) Examples for Instruction in Advanced Subjects.
Classes 6 *and* 7.

SOUTH CAROLINA STATE DEPARTMENT OF PUBLIC INSTRUCTION. Hugh S. Thompson, Superintendent, Columbia.
Set of Reports of the Superintendent.

SOUTHERN ILLINOIS NORMAL UNIVERSITY, Carbondale, Illinois. Robert Allyn, President.
1. Drawings and Examination Papers. 2. Plans and Views of Buildings.

SOWER, POTTS AND CO., Philadelphia.
Text Books for Elementary Instructions, Wall Maps for School Purposes.

STEIGER, E., New York City.
1. Encyclopædia of Education. 2. Text Books and Apparatus for Primary Instruction. 3. Kindergarten Material and Globes.
See also Classes 7 *and* 9.

TAINTOR BROS., MERRILL AND CO., New York City.
1. Text Books for Elementary Instruction, 29 vols. 2. Set of fifteen Writing Books. 3. Five School Records, and Various Appliances.

TERRE HAUTE PUBLIC SCHOOLS, Indiana.
Scholars' Work, 1876, 1st and 7th years.

TEXAS STATE DEPARTMENT OF PUBLIC INSTRUCTION.
1 Reports of the Superintendent. 2. Catalogues.

THOMPSON AND BROWN, Boston, Mass.
1. Eaton and Bradbury's Series of Mathematics. 2. Philbrick's Tablets, and Various Text Books.
Classes 6 *and* 7.

TOPEKA, KANSAS, PUBLIC SCHOOLS. Butterfield, Superintendent.
1. Complete Set of Superintendent's Reports. 2. Scholars' Work, 2 large vols. 3. Views of Schoolhouses.
Classes 6 *and* 7.

TRUSTEES OF THE PEABODY FUND. Barnas Sears, Secretary; Staunton, Virginia.
Reports of the Secretary.

UNITED STATES BUREAU OF EDUCATION, Washington, D. C. John Eaton, Commissioner.

1. Publications of the Bureau: Annual and Special Reports, Circulars of Information, &c., 12 vols.; Four Pamphlets. 2. Twenty Maps, showing certain facts respecting American Education in 1876. 3. Statistical Charts, showing the Educational Condition in 1876 of 38 States and 190 Cities of the United States. 5. Printed Catalogues of Public Libraries in the United States; Specimen Collection from the Library of the United States Bureau of Education, 138 vols.

Classes 6, 7, *and* 8.

UNIVERSITY PUBLISHING CO., New York City.

392. 1. Text Books for Elementary Instruction. 2. Wall Map of South America.

See also Classes 7 *and* 9.

VAN ANTWERP, BRAGG AND CO., Cincinnati, Ohio.

Text Books.

VERMONT STATE DEPARTMENT OF PUBLIC INSTRUCTION, Randolph. Edward Conant, Superintendent.

Reports of the Superintendent.

VINELAND PUBLIC SCHOOL, New Jersey. P. H. Halbrook, Superintendent.

Illustrations of a System of Examining Pupils.

Classes 6 *and* 7.

VIRGINIA STATE DEPARTMENT OF PUBLIC INSTRUCTION, Richmond. W. H. Ruffner, Superintendent.

Annual Reports of the Superintendent.

WARE (WILLIAM) AND CO., Boston, Mass.

1. Text Books for Elementary Instruction.
2. Sixteen Reading, and Four Arithmetical Charts.

See also Class 7.

WASHINGTON (D. C.) PUBLIC SCHOOLS. J. Ormand Wilson, Superintendent.

1. Reports of the Superintendent, 1870-1878, 7 vols.

2. Text and Reference Books; (a) English Language and Literature, 25 vols., 1 chart; (b) Mathematics, 9 vols.; (c) History and Science, 11 vols.; (d) Music, Drawing, and Penmanship, 13 vols., 5 charts; (e) Clycopædias, 5 vols.; (f) Miscellaneous, 14 vols. 3. Scholars' Work, 1878, 55 vols. 4. School Map of the City. 5. Plans and Views of School Buildings in a portfolio. 6. Blanks for School Use, 4 vols., 3 portfolios. 7. Model of the Henry Schoolhouse.

Classes 6 *and* 7.

WATERVILLE PUBLIC SCHOOLS, Kansas. D. E. Saunders, Superintendent.

Scholars' Work.

WEST VIRGINIA STATE DEPARTMENT OF PUBLIC INSTRUCTION. W. K. Pendleton, Superintendent.

State Documents.

WICKERSHAM, J. P., Lancaster, Penn.

Set of Pennsylvania School Journal.

Class 6.

WINCHELL, S. R., Chicago, Ill.

National Educational Weekly, 1877, 1 vol.

WISCONSIN JOURNAL OF EDUCATION, 17 vols.

WISCONSIN STATE DEPARTMENT OF PUBLIC INSTRUCTION, Madison. W. C. Whitford, Superintendent.

1. Executive and Legislative Documents, 3 vols. 2. Set of State Reports, 19 vols. 3. Reports of Public Schools and State University, 5 vols. 4. Scholars' Work, Examination Papers and Drawings, 19 vols. 5. Catalogues of Normal Schools and State University, 5 vols. 6. Wisconsin "Journal of Education," 17 vols. 7. Histories of Colleges and Education in Wisconsin Statistics, &c., 8 vols. 8. Plans, Photographs, and Maps. 9. Registers, Forms, and Blanks, 2 vols. 10. Miscellaneous, 17 vols.

Classes 6, 7, *and* 8.

WISCONSIN STATE NORMAL SCHOOL, Oshkosh, Wis.
1. Scholars' Work, Examination Papers, 6 vols. 2. Catalogues, 1 vol.

WISCONSIN STATE NORMAL SCHOOL, Platteville, Wis.
1. Scholars' Work, Examination Papers, 5 vols. 2. Catalogues, 1 vol.

WISCONSIN STATE NORMAL SCHOOL, River Falls.
Scholars' Work, 2 vols. of Examination Papers.

WISCONSIN STATE NORMAL SCHOOL, Whitewater, Wis. W. F. Phelps, Principal.
Scholars' Work, Examination Papers, Maps, and Freehand Drawings, 6 vols.

WOOD (WILLIAM) AND CO., New York City.
Brown's Grammars, 3 vols.
Classes 6 *and* 7.

WOODS (GEORGE) AND CO., Boston, Mass.
One Desk Organ.

WOODWARD SEMINARY, Morristown, N. J.
Examination Papers.

WRIGHT, CARROLL D., Boston, Mass.
Census of the State of Massachusetts, 1875, 4 vols.

ZELL, T. ELWOOD, DAVIS AND CO., Philadelphia.
General Encyclopædia, suitable for Reference in Schools, 2 vols., and other Books.
See also Class 9.

Class 7.—Organization and Appliances for Secondary Instruction.

ALBANY HIGH SCHOOL, Albany, New York. John E. Bradley, Principal.
1. Plans and Views of School Buildings.
2. Bound Volumes of Reports.
3. Scholars' Work, 2 vols.

APPLETON (D.) AND CO., New York City.
Text Books for Secondary Instruction.
See also Classes 6 *and* 9.

ATCHISON PUBLIC SCHOOLS, Kansas. J. C. Scott, Superintendent.
See Class 6.

BARNES (A. S.) AND CO., New York City.
Text Books for Secondary Instruction.
See Classes 6 *and* 9.

BOSTON PUBLIC SCHOOLS, Boston, Mass. Samuel Elliot, Superintendent.
See Class 6.

BRADLEY, JOHN E., Albany, N. Y.
Original Paper: "Plan of Organization of Schools of Secondary Grade."

CAMBRIDGE PUBLIC SCHOOLS, Mass. Francis Cogswell, Superintendent.
See Class 6.

CHICAGO PUBLIC SCHOOLS, Illinois. Duane Doty, Superintendent.
See Class 6.

CINCINNATI PUBLIC SCHOOLS, Ohio. J. B. Peasler, Superintendent.
See Class 6.

CLARK AND MAYNARD, New York City.
Text Books.
See also Class 6.

CLAXTON, REMSEN AND HAFFELFINGER, Philadelphia.
Text Books for Secondary Instruction.
See also Classes 6 *and* 9.

COLLINS AND BROTHER, New York City.
Text Books.
See also Classes 6 *and* 8.

COOPER UNION, New York. Peter Cooper, President.
1. Drawings by Pupils in the Day and Evening Classes.
2. Engraved View of the Building.

COWPERTHWAIT AND CO., Philadelphia.
Text Books for Secondary Instruction.
See also Class 6.

GINN AND HEATH, Boston, Mass.
Text Books for Secondary Instruction.
See also Class 6.

HAMILTON COLLEGE, Clinton, N. Y.
Views about the College, in a portfolio.

HAMMETT (J. L.) AND CO., Boston, Mass.
Heliotellus, Lunatellus Planispheres and other Apparatus.
See also Class 6.

HARPER AND BROTHERS, New York City.
Text Books for Secondary Instruction.
See also Classes 6 *and* 9.

HOLT (HENRY) AND CO., New York City.
Text Books for Secondary Instruction.
See also Classes 6 *and* 9.

INDIANAPOLIS PUBLIC SCHOOLS, Indiana.
High School Examination Papers.
See also Class 6.

IVISON, BLAKEMAN, TAYLOR AND CO., New York City.
Text Books for Secondary Instruction.
See also Classes 6 *and* 9.

KANSAS STATE DEPARTMENT OF PUBLIC INSTRUCTION. A. B. Lemon, Superintendent, Topeka.
See Class 6.

LAFAYETTE COLLEGE, Easton, Pennsylvania. S. S. Fissler, Secretary.
1. Scholars' Work: Contour Map of the College Grounds.
2. Framed View of Pardee Hall.

LIPPINCOTT (J. B.) AND CO., Philadelphia.
Text Books for Secondary Instruction.
See also Classes 6 *and* 9.

MASSACHUSETTS STATE DEPARTMENT OF PUBLIC INSTRUCTION. J. W. Dickinson, Secretary.
See Class 6.

MASSACHUSETTS STATE NORMAL ART SCHOOL, Boston, Mass. Walter Smith, Director.
Scholars' Work, 10 Portfolios of Drawings.

MILWAUKEE PUBLIC SCHOOLS, Wisconsin. James McAlister, Superintendent.
See Class 6.

MOUNT HOLYOKE FEMALE SEMINARY, South Hadley, Mass. Miss Julia Ward, Principal.
1. Catalogues, 2 vols., 1 portfolio. 2. Five Historical and Memorial Volumes. 3. Plans, Photographs, and Water Colour Picture of School and Grounds.

NATIONAL DEAF MUTE COLLEGE: COLUMBIA INSTITUTION FOR THE INSTRUCTION OF THE DEAF AND DUMB, Washington, D. C.
1. Reports, 1858-1875. 2. Publications relating to Deaf Mute Instruction, 41 vols. 3. Collection of Photographs of Institutions for Deaf Mutes.

NEWTON PUBLIC SCHOOLS, Mass.
Scholars' Work.
See also Class 6.

PORTSMOUTH HIGH SCHOOL, Portsmouth, New Hampshire. S. W. Clarke, Principal.
1. Various School Documents. 2. Scholars' Work; (a) Essays and Examination Papers from the Four Classes; (b) Plan and Surveying Papers.

PUTNAM'S (G. P.) SONS, New York City.
Text Books.
See Class 6.

RHODE ISLAND STATE DEPARTMENT OF PUBLIC INSTRUCTION. Thomas B. Stockwell, Commissioner, Providence.
See Class 6.

RICHMOND, INDIANA, PUBLIC SCHOOLS.
Scholars' Work.
See also Class 6.

ROME, GEORGIA, FEMALE COLLEGE. J. M. M. Caldwell, President.
Scholars' Work; Drawings, one portfolio.

RUDY, CHARLES, Paris.
Method of Teaching the Chinese Mandarin Language, 1 vol.

SCRIBNER, ARMSTRONG AND CO., New York City.
Text Books for Secondary Instruction.
See also Classes 6 *and* 9.

SHELDON AND CO., New York City.
Text Books for Secondary Instruction.
See also Class 6.

SMITH, WALTER, Boston, Mass.
Text Books.
See also Class 6.

STEIGER, E., New York City.
Text Books for Secondary Instruction.
See also Classes 6 *and* 9.

THOMPSON AND BROWN, Boston, Mass.
Text Books.
See also Class 6.

TOPEKA, KANSAS, PUBLIC SCHOOLS.
Scholars' Work.
See also Class 6.

TROUVELOT, LEOPOLD, Cambridge, Mass.
Five Framed Lithographed Copies of Astronomical Drawings. 2. Planispheres.

UNITED STATES BUREAU OF EDUCATION, Washington, D. C. John Eaton, Commissioner.
See Classes 6 *and* 8.

UNITED STATES NAVAL ACADEMY, Annapolis, Maryland. Rear-Admiral C. R. P. Rodgers, Superintendent.
1. Registers and Regulations. 2. History of the Academy, 1 vol. 3. Two Photographic Views of the Buildings, in a portfolio.

UNIVERSITY PUBLISHING CO., New York City.
Text Books for Secondary Instruction.
See also Classes 6 *and* 9.

VASSAR COLLEGE, Poughkeepsie, New York. W. T. Forbes, General Superintendent.
1. Catalogue, 1876-77. 2. Historical and Descriptive Publications, 2 vols. and 1 pamphlet. 3. Astronomical Negative and Drawings. 4. Views of the College Buildings.

VINELAND PUBLIC SCHOOLS, New Jersey. P. H. Halbrook, Superintendent.
Illustrations of a System of Examining Pupils.
See also Classes 6.

WARE (WILLIAM) AND CO., Boston, Mass.
Text Books for Secondary Instruction.
See also Class 6.

WARREN, S. EDWARD, Newton, Mass.
1. Text Books for Instruction in Descriptive Geometry and Stereotomy, 12 vols. 2. Students' Work in Drawing, 134 sheets in portfolio.

WASHINGTON (D. C.) PUBLIC SCHOOLS. J. Osmand Wilson, Superintendent.
See Class 6.

WASHINGTON AND JEFFERSON COLLEGE, Washington, Penn. George P. Hays, President.

1. Scholars' Work, Examination Papers on the Constitution of the United States. 2. Eight Views of College Buildings in a portfolio.

WELLESLEY COLLEGE, Wellesley, Massachusetts. Ida Howard, President.

1. Water Colour View of the College and Grounds. 2. Descriptive Pamphlet.

WHEELER AND WILSON MANUFACTURING CO., New York City. Manufactory, Bridgeport, Conn.

Sewing Machines used for Industrial Education.

See also Classes 36, 44, 54, 58, 61.

WILLISTON SEMINARY, Easthampton, Mass. J. M. Whiton, Principal.

1. Catalogues and Examination Papers, 1 vol. 2. Scholars' Work, 5 sheets of Drawings. 3. 10 Views, exterior and interior of the Seminary.

WISCONSIN STATE DEPARTMENT OF PUBLIC INSTRUCTION, Madison. W. C. Whitford, Superintendent.

See Classes 6 *and* 8.

WOOD (WILLIAM) AND CO., New York City.

Text Books.

See also Class 6.

WORCESTER FREE INSTITUTE, Worcester, Mass. C. O. Thompson, Principal.

1. Catalogues. 2. Model Drawing Stand. 3. "Worcester Illustrated," Theses, and Miscellany, 3 vols. 4. Heliotype Views of the Buildings. 5. Set of Models for Drawing.

Class 8.—Organization, Methods, and Appliances for Superior Instruction.

BOSTON UNIVERSITY, Boston, Mass. W. F. Warren, President.
Set of Year Books, and Catalogues.

CALIFORNIA STATE UNIVERSITY, Berkeley, Cal.
Latest Register, 1 vol.

CLARKE (ROBERT) AND CO., Cincinnati, Ohio.
"American State Universities," 1 vol.

COLLINS AND BROTHER, New York City.
Text Books for Superior Instruction.
See also Classes 6 *and* 7.

HARVARD UNIVERSITY, Cambridge, Mass. Charles W. Eliot, President.
1. Quincy's "History of Harvard University," 2 vols. 2. Annual Reports on Harvard University, 1870-77, 1 vol. 3. "Catalogus Universitatis Harvardianæ," 1875. 4. Catalogue, 1877-78. 5. King's "Harvard and its Surroundings," 1 vol. 6. "Harvard Book" of Historical Sketches and Heliotype Illustrations of the Buildings, 2 large vols.

ILLINOIS INDUSTRIAL UNIVERSITY, Champaign, Ill. J. M. Gregory, Regent.
1. Reports on the University, 7 vols. 2. Thirty-one Photographic Views of Buildings and Grounds. 3. Sixty-four Specimens of Shopwork. 4. Thirty Specimen Plates of Drawings. 5. Six Portfolios of Students' Work, Theses, &c.

INDIANA STATE UNIVERSITY, Bloomington, Indiana. R. C. Foster, Secretary.
Catalogues.

LEA, HENRY C., Philadelphia.
Medical Text Books, 37 vols.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Boston, Mass. J. D. Runkle, President.

1. Documents relating to Organization and Course of Study, 2 vols., and several Pamphlets. 2. Architectural Drawings of Students, contributed by Wm. R. Ware, Professor of Architecture, in sixteen frames.

MICHIGAN STATE UNIVERSITY, Ann Arbor. J. B. Angell, President.

1. Calendar and last General Catalogue. 2. Adam's Historical Sketch.

NEW YORK STATE UNIVERSITY.

Set of Reports of the Regents, and of the University Convocations.

SCHOOL OF DESIGN OF THE UNIVERSITY OF CINCINNATI, Cincinnati, Ohio. Benn Pitman, Director.

Photographs of Pieces Carved by Girls.

UNITED STATES BUREAU OF EDUCATION, Washington, D. C. John Eaton, Commissioner.

See Classes 6 *and* 7.

VAN NOSTRAND, D., New York City.

Publications relating to Scientific and Technological subjects.

WILEY (JOHN) AND SONS. New York City.

Scientific Text Books, 35 vols.

See also Class 9.

WISCONSIN STATE DEPARTMENT OF PUBLIC INSTRUCTION, Madison. W. C. Whitford, Superintendent.

See Classes 6 *and* 7.

WISCONSIN STATE UNIVERSITY, Madison, Wis. L. Bascom, President.

1. Regents' Reports, Catalogues, and History, 4 vols. 2. Scholars' Work, 1 Topographical Map, and 2 vols. of Papers and Drawings. 3. Plans and Views of the University, 1 vol. 4. Essays by the Faculty, 1 vol.

ZENTMAYER, CHARLES, Philadelphia.
831. Microscopical Preparations.

Class 9.—Printing and Books.

AMERICAN BOOKSELLER (American News Company), New York City.
American Bookseller.

AMERICAN MODEL JOB OFFICE (WM. J. KELLY, N. Y.), Exposition Building.
A Special EXHIBIT, showing in full operation a complete Printing Office, suited to the requirements of Exhibitors, Merchants, &c., capacity to execute in 5 or more languages. Material in use, the most modern made, and shown as separate exhibits, as follows: Plain and fancy Types, James Conners' Sons, New York. Script Types, Farmer, Little & Co., New York. Universal Presses (4) by M. Gally, New York. Coloured Printing Inks, A. C. Hoyt, New York. Black Inks, Sheldon Collins & Co., New York. Cabinets, Stands, Cases, Wood Types by Vanderburgh, Wells & Co., New York City. Mechanical Quoins by Benj. F. Allen, Boston.

AMERICAN PRINTING HOUSE FOR THE BLIND, Louisville, Ky.
Books, with Embossed Type for the Blind.
See also Class 6.

APPLETON (D.) AND CO., New York City.
Miscellaneous Books.
See also Classes 6 *and* 7.

ASHER AND ADAMS, New York City.
Map of the United States, and Pictorial Album of American Industry.

BARNES (A. S.) AND CO., New York City.
Miscellaneous Books.
See also Classes 6 *and* 7.

BENCKE AND CO., New York. Chromolithography.

BIEN, JULIUS, New York City.
Geographical, Geological, and Astronomical Maps and Atlases. Lithography and Typography.

BOERICKE AND TAFEL, New York City.
Homœopathic Medical Books.

BREWERS' JOURNAL, New York City.
"The German and American Brewers' Journal, and Malt and Hop Trades Reporter."

CLAXTON, REMSEN AND HAFFELFINGER, Philadelphia.
Miscellaneous Books.
See also Classes 6 *and* 7.

DAVIS, BARDEEN AND CO., Syracuse, N. Y.
Miscellaneous Books.
See also Class 6.

FORBES, EDWIN, New York City.
Etchings on Copper. Life Studies of the great Army of the Union.
See also Class 5.

GEBBIE AND BARRIE, Philadelphia.
Books and Publications.

HARPER AND BROTHERS, New York City.
Miscellaneous Books and Periodicals.
See also Classes 6 *and* 7.

HOLT (HENRY) AND CO., New York City.
Miscellaneous Books.
See also Classes 6 *and* 7.

HOUGHTON (H. O.) AND CO., Riverside Press, Printers, Cambridge, Mass.
Miscellaneous Books.

HOUGHTON, OSGOOD AND CO., Boston, Mass.
Books and Periodicals.

IVISON, BLAKEMAN, TAYLOR AND CO., New York City.
Miscellaneous Books.
See also Classes 6 *and* 7.

KNIAS, W. B., Philadelphia.
Books printed for the Blind.

KNIGHT, EDWARD H., Bellefontaine, Ohio.
Knight's American Mechanical Dictionary, 3 vols. 4to.

LASSALES (CHARLES) AND CO., New York City.
Files of "Courrier des Etats Unis," Daily, Weekly, and European Special Editions.

LIPPINCOTT (J. B.) AND CO., Philadelphia.
Miscellaneous Books.
See also Classes 6 *and* 7.

LOCKWOOD, HOWARD, New York City.
Books.

LOTHROP (D.) AND CO., Boston, Mass.
Books and Magazines.

MERRIAM, G. AND C., Springfield, Mass.
Webster's Dictionaries.
See also Class 6.

NORTON, C. B., New York City.
Book, "Treasures of Art Industry and Manufactures at the International Exhibition, 1876."

PERKINS INSTITUTION AND MASSACHUSETTS ASYLUM FOR THE BLIND. Boston, Mass. M. Anagnos, Superintendent.
Books in Embossed Type.
See Class 6.

PERRIS AND BROWN, New York City.
Volume I. of Insurance Map of N. Y. City.

PETTENGILL, S. M., New York City.
Newspapers.

PRANG (L.) AND CO., Boston, Mass.
Books, Chromos, and Lithographs.

PUBLIC LIBRARY, Boston.
Miscellaneous Books.
See Class 6.

PUBLISHERS' WEEKLY (F. LEYPOLDT), New York City.
Book Trade Journal, Bibliographical Publications.

SABIN (J.) AND SONS, New York City.
Dictionary of American Books, A—H, 9 vols.

SCHOLL, BRUNO, Chicago.
Engraving on Pine Wood for Theatrical Advertising.

SCRIBNER, ARMSTRONG AND CO., New York City.
Miscellaneous Books.
See also Classes 6 *and* 7.

SCRIBNER AND CO., New York City.
Periodicals.

SIBOLE (J. L.) AND CO., Philadelphia.
Illustrated Books.

STEIGER, E., New York City.
Miscellaneous Books.
See also Classes 6 *and* 7.

UNITED STATES TREASURY DEPARTMENT, Washington, D. C. John Sherman, Secretary.
Specimens of Engraving and Printing of United States Money and Bonds.

UNIVERSITY PUBLISHING CO., New York City.
Miscellaneous Books.
See also Classes 6 *and* 7.

WILEY (JOHN) AND SONS, New York City.
Miscellaneous Books.
See also Class 8.

WILLIAMS, DAVID, New York City.
Files of the "Iron Age," "Metal Worker," "Metallurgical Review." Maps and Books showing the Mineral Resources and Metallurgy of the U. S. 1,200 Price Lists of Metal Manufactories.

ZELL, T., ELWOOD, DAVIS AND CO., Philadelphia.
Miscellaneous Books.
See also Class 6.

Class 10.—Stationery, Bookbinding, Painting, and Drawing Materials.

AIKEN, LAMBERT AND CO., New York City.
Gold Pens, Cases, Pencils.
See also Class 15.

BAGGER, LOUIS, Washington, D.C.
Parallel Ruler, Marking Pen.
See also Class 54.

BIRD (F. W.) AND SON, East Walpole, Mass.
Tarred Hardware, Cutlery, and Woollen Wrapping Paper.

BRIDGEMAN, E. C., New York City.
Document Envelopes.

BULKLEY, DUNTON AND CO., New York City.
Blotting Paper.

BULLARD (D. A.) AND SONS, Schuylerville, N. Y.
Paper made from Rye Straw.
See also Class 46.

CAMPBELL, HALL AND CO., New York City.
National Safety Paper, for Checks, &c.

CARTER, DINSMORE AND CO., New York City.
Writing and Copying Inks, and Mucilage.

CASE BROTHERS, South Manchester, Conn.
Press Boards, for Printers' use.

CHATFIELD AND WOODS, Cincinnati, Ohio.
Paper Bags, made by Machinery.

CLEVELAND PAPER BOX MACHINE CO., New York City.
Paper Boxes.

CRANE BROS., Westfield, Mass.
Paper Trunk ; Ledger Papers, machine and hand-made. All-Linen Papers ; Paper Baskets and Belting.

CRANE AND CO., Dalton, Mass.
Bond Papers.
See also Class 40.

DAVEY (W. O.) AND SONS, Jersey City, N. J.
Tar Mill Boards, for Bookbinders' and Trunk Makers' use.

DAVIS, GEO. E., Saccarappa, Me.
Leather Boards, for Boot and Shoe Makers' use.

DIAMOND MILLS PAPER CO., Millburn, N. J.
Medicated Closet Paper.

DIXON (JOSEPH) CRUCIBLE CO., Jersey City, N. J.
Lumber Pencils, Artists' and Common Pencils.
See also Class 43.

DOUGHERTY, ANDREW, New York City.
Playing Cards.

FAIRBANKS (E. AND T.) AND CO., St. Johnsbury, Vt.
Scales for Weighing Letters and Newspapers.
See also Classes 6, 15, 50, 54, 64, 76.

FAIRCHILD (LE ROY W.) AND CO., New York.
Gold Pens, Gold and Silver Pencil Cases, &c.

FALL MOUNTAIN PAPER CO., Bellows Falls, Vt.
News, Printing, and Double Manilla Papers.

HAKE, PH., New York.
Cards, for Printers and Engravers.

HOLLINGSWORTH, Z. T., East Walpole, Mass.
Rope-wrapping, Sand, Emery, and Tag Papers

HOLYOKE PAPER CO., Holyoke, Mass.
Linen, Writing, and Bank Note Paper.

HOWE SCALE CO., Rutland, Vt.
Balances for Weighing Letters and all other Mail Matter.
See also Classes 6, 50, 52, 54, 64, 68, 76.

HURLBURT PAPER CO., South Lee, Mass.
Lithographic and Chromo Paper. Bristol Board.

KNAPP, J. H., New York City.
Gold Pens, Pencils, &c.

MONTAGUE PAPER CO., Turners Falls, Mass.
News Printing Paper.
See also Class 46.

MORTON, Jas., New York City.
Gold Pens and Pencils.

MURPHY'S (Wm. F.) SONS, Philadelphia.
Blank Book.

NEWTON PAPER CO., Holyoke, Mass.
Carpet Lining Paper, Moth Proof.

NEW YORK CONSOLIDATED CARD CO., New York City.
Playing Cards.

NEW YORK SILICATE BOOK SLATE CO., New York City.
Silicate Book Slates, Liquid Slating, Silicate Black Board Cloth, and Slated Paper.

PARKER (Joseph) and SON, New Haven, Conn.
Blotting Paper.

PHŒNIX CARD and PAPER CO., New York City.
Printers' Cards.

RAYNALD, John, Philadelphia.
Black Ink.

RIEGEL (J. L.) and SONS, Riegelsville, N. J.
Manilla Wrapping Paper.

SHAWMUT MANUFACTURING CO., Boston, Mass.
Leatherette, Imitation of Paper.

SHRIVER and CO., New York City.
Presses for Copying Letters.
See also Class 13.

SLOTE, WOODMAN and CO., New York City.
Blank and Scrap Books.

STILES (E. W.) and CO.
Marine and Stationary Inkstands.

TAYLOR, NICHOLS and CO., Springfield, Mass.
Papeteries.

UNDERWOOD, JOHN, Hoboken, N. J.
Chemical Safety Paper, or Safety Checks, for Banking Purposes.

UNION PAPER MANUFACTURING CO., Holyoke, Mass.
Writing Paper.

WAVERLEY MILLS, P. Adams, Burnside, Conn.; Woolworth and Graham, Agents, N. Y.
Book Printing Paper.
The paper on which this Catalogue is printed is a specimen of this Exhibit.

WESTON, BYRON, Dalton, Mass.
Record and Account Book Papers.

WHITE, W. F., Ashburnham, Mass.
Painters' Palette.

WHITCOMB (G. H.) AND CO., Worcester, Mass.
Envelopes made by Machinery.

WHITING PAPER CO., Holyoke, Mass.
Fine Papers.

WILCOX, JAS. M., Philadelphia.
Paper for Bank-notes, &c.

WOGLOM, W. H., New York City.
Paper Clips and Files.

WOOLWORTH AND GRAHAM, New York City.
Collection Exhibit of Paper Manufacturing and Kindred Industries, representing the productions of Twenty-eight Firms.

Class 11.—General Application of the Art of Drawing and Modelling.

BARRY, PETER, New York City.
Panel Painting for Carriages.

KAISER AND HERZOG, Philadelphia.
Designs for the Decoration of Ceilings and Walls.
See also Class 18.

MITCHELL, HENRY, Boston, Mass.
Medals and Seals Engraved.

RUSSELL AND ERWIN MANUFACTURING CO., New Britain, Conn.
Designs for the Decoration of Door, Window, and Fire-place Furniture.
See also Classes 25, 43, 59, *and* 66.

Class 12.—Photographic Proofs and Apparatus.

BEAL, J. H., New York City.
Photograph of New York City.

CENTENNIAL PHOTOGRAPH CO., Philadelphia.
Photographs of the Centennial Exhibition, 1876.

GUBELMAN, THEO., Jersey City, N. J.
Photographic Portraits.

GUERIN, FITZ. W., St. Louis, Mo.
Photographs from Life in imitation of Statuary.

GURNEY, J., New York City.
Coloured and Enamelled Photographs, or Paintings, imperishable, and require no glass for protection. Process Patented.

GUTEKUNST, F., Philadelphia.
Artistic Photographic Pictures.

LANDY, JAMES, Cincinnati, Ohio.
Photographs.

SARONY, NAPOLEON, New York City.
Photographic and Crayon Portraits and Sketches.

SEAVEY, LAFAYETTE W., New York City.
Photographs illustrating Photographic Backgrounds, and Accessories.

SMITH, JOSHUA, Chicago, Ill.
Photographs.

WESTON, N., San Francisco, Cal.
Photographs.

Class 13.—Musical Instruments.

ALBERT, CHARLES F., Philadelphia.
Violins and Violoncellos.

CLOUGH AND WARREN ORGAN CO., Detroit, Mich.
Cabinet Reed Organs.

DOLGE, ALFRED, New York City.
Piano Felts and Sounding Boards.

ESTEY (J.) AND CO., Brattleboro, Vt.
Reed Organs.

LEHNERT, HENRY G., Philadelphia.
Brass Musical Instruments for Bands and Orchestras, &c.

McDONALD, JAMES, Williamsport, Pa.
Square Grand Pianoforte.

MASON AND HAMLIN ORGAN CO., New York City.
Cabinet Organs.

MEYER (CONRAD) AND SONS, Philadelphia.
Pianofortes.

POSTAWKA (LOUIS) AND CO., Cambridgeport, Mass.
Adjustable Piano Stool.

SCHAFFER, WM., New York City.
Square Pianoforte.

SEEFELDT, WM. F., Philadelphia.
Band Instruments.

SHONINGER (B.) PIANO AND ORGAN CO., New Haven, Conn.
Universal, Upright, or Boudoir Pianofortes. Universal, Cymbella, Chorale, Capella, Eureka, and Paragon Organs.

SHRIVER AND CO., New York City.
Iron Frames for Pianofortes.
See also Class 10.

STIEFF, CHAS. M., Baltimore, Md.
Upright Grand Pianos.

Class 14.—Medicine, Hygiene, and Public Relief.

ABBEY (CHARLES) AND SONS, Philadelphia.
Dentists' Fine Gold Foil.

ALLEN (JOHN) AND SONS, New York City.
Artificial Dentures.

BROWN, E. PARMLY, Flushing, N. Y.
Dentistry.

BYRNE, JOHN, M.D., Brooklyn, N. Y.
One Electro-Cautery Battery for Surgical uses; also one for Electro-Motor Power.

CARMAN, M. A., Canandaigua, N. Y.
Anatharin: a Mouth Wash and Tooth Powder.

EVANS, DR. THOMAS W., Paris, France.
Ambulance Material: 1. A Model of Hospital Car, with beds, dispensary, linen, wine, and water-closets, systems of ventilation and heating, &c. (patent). 2. Evans' Ambulance Waggon. 3. Evans' Tent with improved system of heating. 4. Model of Field Hospital. 5. Medicine Waggon. 6. Amputating Table, folding. 7. Model of General Hospital. 8. Model of Small Hospital. 9. Field Medicine Case. 10. Car for Hospital Table. 11. Artificial Limbs. 12. Stretchers. 13. Sets of Splints. 14. Perforated Zinc Splints. 15. Crutches, with swing. 16. Knapsack, forming bed, tent, and stretcher. 17. An Invalid Elevator. 18. Knife and Fork combined, for the use of those having but one hand. 19. Hospital Mess Chest. 20. Staff Surgeons' Capital Operating set.

JUSTI, H. D., Philadelphia.
Dental Instruments and Appliances and Teeth.

McILROY, T., New York City.
Surgical Operating Tables, Invalid Bed, and various Surgical Apparatus.

MATTSON, MORRIS, New York City.
Medical and Surgical Instruments, especially for Application of Dry-Heat and Dry-Cold.

WHITE, SAMUEL S., Philadelphia.
Porcelain Teeth, Dental Instruments, and Chairs, Foils, &c.

WILLIAMS, R. S., New York City.
Various Preparations of Gold for filling Teeth.

WILSON, GEORGE, Brooklyn, N. Y.
Surgical, Invalid, and Recumbent Easy Chair.

Class 15.—Mathematical and Philosophical Instruments.

AIKEN, LAMBERT AND CO., New York City.
Horse Timers.
See also Class 10.

BAUSCH AND LOMB OPTICAL CO., New York City.
Optical Instruments: Eye Glasses, Magnifiers, Microscopes, Telegraphs, &c.

DARLING, BROWN AND SHARPE, Providence, R. I.
654. U. S. standard Rules; patent hardened Cast Steel Try Squares; the American standard Wire Gauge, and a variety of Tools for accurate measurements.

FAIRBANKS (E. AND T.) AND CO., St. Johnsbury, Vt.
Scales for Druggists' use.
See also Classes 6, 10, 50, 54, 64, 76.

JUVET, L. P., Glens Falls, N. Y.
Time Globe.

SPENCER, CHAS. A., Geneva, N. Y.
Microscopic Lenses.

STANLEY RULE AND LEVEL CO., New Britain, Conn.
312. Carpenters' Tools.

VON HOVEN, LOUIS, New York City.
Automatic Check Register, or a perfect Cash-control, for use in Restaurants or any place where a check on Cash Receipts is needed.

ZENTMAYER, Jos., Philadelphia.
Microscope, with accessories.

Class 16.—Maps, and Geographical and Cosmographical Apparatus.

KRAUSE, H. F., New York City.
380. Maps, shaded in relief, of Turkey and the San Juan Country, with Heliotypes of the same.

Group 3.—Furniture and Accessories.

Class 17.—Cheap and Fancy Furniture.

BEAUDET, Homer J., Greenpoint, L. I.
Swing Convertible Cradle, and Combined Rocking Chair Cradle.

COLLENDER, H. W., New York City.
Billiard Table, with Markers, Cue Racks, &c.

DOREMUS, Peter C., New York City.
Automatic Sofa Spring Bed and Lounge.

FARRINGTON, H. J., New York City.
Bedsteads.

GARDNER and CO., New York City.
Perforated Veneer Seats, for various kinds of Chairs, Settees, &c. Reversible Railway Seats. Sofas and Stools.

KEMBLE, Miss Mary W., New York City.
Lace Painting for Furniture Decoration.

MARCOTTE (L.) and CO., New York City.
Furniture.

MASON, Fanny P., Brooklyn, N. Y.
Adjustable Book Support, for Keeping Books in an erect position on Library Shelves, Office Tables, &c.

MOORE, Joseph A., Indianapolis, Ind.
Two Office Desks.

OREGON FURNITURE MANUFACTURING CO., Portland, Oregon.
Desk and a Cabinet (used for the display of the Exhibits of Oregon).

PARENT, CHAS. E., New York City.
Glass Ball Castor.

STEWART, S. N., Paris, France.
Umbrella and Camp Chairs and Stools.

Class 18.—Upholsterers' and Decorators' Work.

HARTSHORN, STEWART, New York City; Manufactory, East Newark, N. J.
Window Shade Rollers.

JOHNSTON, E. S., Philadelphia.
Window Shade Rollers.

KAISER AND HERZOG, Philadelphia.
Designs for Decoration of Ceilings and Walls.
See also Class 11.

TUCHFARBER (FRANK) AND CO., Cincinnati, Ohio.
Enamelled, and Porcelain finished, Iron Show Cards.

Class 19.—Crystal, Glass, and Stained Glass.

COLNÉ, J. P., Washington, D. C.
Glass, Marble and Optical Lenses, cut by machinery.

HICKS, WILLIAM H., New York City.
Bottle Stoppers, for Still or Aërated Liquids.

MERIDEN FLINT GLASS WORKS, West Meriden, Conn.
Cut Glass, Table and Decorated Ware.

Class 20.—Pottery.

CARR, JAS., New York City.
Pottery and Parian Ware.

McLAUGHLIN, LOUISE, Cincinnati, Ohio.
Painted Porcelain and Pottery.

OTT AND BREWER, Trenton, N. J.
White and Coloured Vases, Busts, &c., in true Porcelain.

Class 21.—Carpets, Tapestry, and other Stuffs for Furniture.

BIGELOW CARPET CO., Clinton, Mass.
Moquette Carpeting.

BLABON (GEO. W.) AND CO., Philadelphia.
Oil Cloths of all kinds and for all purposes.

LOEWENBERG, HENRY, Philadelphia.
"Velociplastic" Fac-similes of Leather, Damasks, Reps, Bronze Work, &c.

SCOTT (T. SEYMOUR) AND BRO., Philadelphia.
Flour Sack and Building Paper, also Paper Oil-cloth.

SMITH (ALEXANDER) AND SON, CARPET CO., Yonkers, N. Y.
Carpeting.

Class 23.—Cutlery.

NORTHFIELD KNIFE CO., Northfield, Conn.
Pocket Cutlery.

TIFFANY AND CO., New York City.
Spoons, Forks, and other articles of Silver of 925-1000 quality, for domestic use.

See also Classes 24, 25, 29, 39 *and* 43.

Class 24.—Goldsmiths' and Silversmiths' Work.

OAKLEY, Thos. B., Paris, France.
Works of Art in Californian Gold and Quartz.

TIFFANY and CO., New York City.
Art Work in Silver. Incrustated Work. Chromatic Decoration of Silver Damascened Work in Gold, Silver, Steel, and Copper. Hammered Silver decorated with alloys of various metals and their patines. Mixed or luminated metals consisting of Gold, Silver, Copper, and their alloys, &c.
See also Classes 23, 25, 29, 39 *and* 43.

Class 25.—Bronzes, Various Art Castings, and Repoussé Work.

RUSSELL and ERWIN MANUFACTURING CO., New Britain, Conn.
Artistic Fittings in Statuary Bronze, Nickel, Gold, and Enamel, for Door, Window, and Fire-place decorations.
See also Classes 11, 43, 59 *and* 66.

TIFFANY and CO., New York City.
Repoussé Work. Reproductions in all Metals of Museum Articles. Electro Deposited works. The "Bryant Vase" reproduced in Nickel Silver, &c.
See also Classes 23, 24, 29, 39 *and* 43.

Class 26.—Clocks and Watches.

AMERICAN WATCH CO., Waltham, Mass.
Watches, Watch Movements, and Watch Materials.
The movements made by this Company are constructed upon what is known as the "American system," with interchangeability of parts for the several grades manufactured, by the use of machinery devised and perfected in their factory. Independently of the ad-

vantages which result from the mere perfection of the manufacture in the adjustment of the parts (essentials of the highest importance), the convenience of this system in facilitating repairs is its most important feature from an economic point of view. Each watch is provided with Fogg's Patent Safety Pinion.

ANSONIA CLOCK CO., Ansonia, Conn.
Clocks and Movements.

HAGSTOZ AND THORPE, Philadelphia.
Watch Cases plated with Gold on composition metal.
See also Class 43.

KROEBER, F., New York City.
Fine Walnut-Case Clocks, with Device allowing Hands to be turned backward and forward.

MEYBRIDGE, E. J., San Francisco, Cal.
Pneumatic Clock.

THOMAS (SETH) CLOCK CO., New York City.
Tower, Church, House, and Marine Clocks.

Class 27.—Apparatus and Processes for Heating and Lighting.

ABENDROTH BROS., Manufactory, Port Chester, N. Y.
Office, New York City.
Stoves, Ranges, Heating Apparatus, and Ornamental Iron Work.

ADAMS AND WESTLAKE, Chicago, Ill.
Petroleum Stoves for Heating and Cooking Purposes.

BECKEL, WM., Philadelphia.
Student's Lamp, with Electric Lighting Attachment.

BRACHER, T. W., New York City.
Ventilators, Air Filters, and Moisteners, &c.

BRADLEY, MRS. M., Morrisania, N. Y.
Lunch Heater.

CRANE BROS. MANUFACTURING CO., Chicago, Ill.
Malleable Iron Fittings, and Brass Valves, Cocks, &c., for Gas, Steam, and Water.

DOTY, H. H., Washington, D. C.
Lamp for Lighthouses.

FLETCHER MANUFACTURING CO., Providence, R. I.
Shoe Strings, Kerosene Lamp and Stove Wicks.
See also Class 37.

FUNCK, JOSEPH, Staten Island, N. Y.
Lamps for Lighthouse and Domestic use.

HALLER, ELLA, Philadelphia.
Hydro-Platinum, self-lighting Lamp, non-explosive.
See also Classes 71 *and* 73.

HENIS, CHAS. F., Philadelphia.
Adjustable Lock Elbow, for Stove, Heater, and Conductor Pipes.

IDEN AND CO., New York City.
Chandeliers and Gas Fixtures.

LEEDS (L. W.) AND CO., New York City.
Diagrams, Illustrating Method of Ventilating and Warming Buildings.

LIEBRANDT AND McDOWELL STOVE CO., Philadelphia.
Heating Stoves, Cooking Stoves, Ranges, and Laundry Stoves.

OLMSTED, L. H., New York City.
Night Lamps, "Little Harry's Odourless."

OPEN STOVE VENTILATING CO., New York City; Factory, Phillipsburg, N. J.
One "Fire on the Hearth" combination of an Open Fire, Close Stove, and Warm-air Furnace.

RATHBONE, SARD AND CO., Albany, N. Y.
Stoves and Ranges.

Class 28.—Perfumery.

LORENZ BROS., Toledo, Ohio.
Perfumery and Articles for the Toilet.

Class 29.—Leather Work, Fancy Articles, and Basket Work.

COOK, Mrs. M. A., San Francisco, Cal.
Natural Flowers, chemically preserved.

DORMAN MANUFACTURING CO., New York City.
Ja-se-po-ri Ware. (Bamboo.)

PATTBERG (Lewis) and BRO., New York City. Factory, Jersey City.
Velvet and Metal Picture Frames, Toilet Mirrors, Glove and Handkerchief Boxes, Albums.

TIFFANY and CO., New York City.
Cases for Diamond and Gold Jewellery, and Silver Ware, made of Woods, Leathers, Stuffs, Velvets, Satins, &c. of novel designs and application of materials. Plate Chests for family plate.

See also Classes 23, 24, 25, 39, *and* 43.

•

Group 4.—Textile Fabrics, Clothing and Accessories.

Class 30.—Cotton, Thread and Fabrics.

ALLENDALE CO., Providence, R. I.
Cotton Sheetings and Quilts, &c. Bleached Sheetings.

APPLETON, COMPANY, Lowell, Mass.
Unbleached and Grey Cotton Cloth.

COFFIN, ALTEMUS AND CO., Philadelphia.
Cotton Goods.

DUNNELL MANUFACTURING CO., Pawtucket, R. I.
Printed Calicoes.

ENTERPRISE MILLS, Augusta, Ga.
Cotton Fabrics.

FORESTDALE MANUFACTURING CO., Slatersville, R. I.
Bleached Cotton Goods.

GREENE (S. H.) AND SONS, Riverpoint Post Office, R. I.
Calicoes, Handkerchiefs, &c.

GROSVENOR, WM. H., JUN., Providence, R. I.
Cotton Goods.

GROTON MANUFACTURING CO., Providence, R. I.
Bleached Cotton Goods.

JACKSON CO., Nashua, N. H.
Unbleached or Grey Cotton Cloth.

LANGLEY MILLS, Augusta, Ga.
Cotton Fabrics.

LEWIS BROS. AND CO., Providence, R. I.
White and Coloured Cotton Fabrics.

MANVILLE COMPANY, Providence, R. I.
Cambric Linings.

MISSISSIPPI MILLS, Wesson, Miss.
Jeans, Tweeds, Doeskins, Cotton Plaids, Checks, Sheetings, Shirtings, &c.

MUDGE (E. R.), SAWYER AND CO., New York City.
Cotton Goods.

NASHUA MANUFACTURING CO., Nashua, N. H.
Unbleached or Grey Cotton Cloths and Flannels.

OCEAN MILLS, Newburyport, Mass.
Unbleached and Grey Cotton Cloth.

PONEMAH MILLS, Providence, R. I.
Bleached and Brown Cotton Goods.

POWHATTAN MILLS, Providence, R. I.
Brown and Bleached Cottons.

PRETTY, GRIME, AND CO., Philadelphia.
Grey and Mourning Prints.

PROVIDENCE STEAM MILLS, Providence, R. I.
Bleached Cotton Goods.

SEMPLE (SAMUEL) AND SONS, Mount Holly, N. J.
Spool Cotton.

SLATER COTTON CO., Providence, R. I.
Bleached Sheetings.

SLATER, JOHN F., Jewett City, Conn.
Cheviot Shirtings.

TRAINER (DAVID) AND SONS, Linwood, Pa.
Omega Tickings.

UPHAM, TUCKER AND CO., Boston, Mass.
Cotton Fabrics.

WAMSUTTA MILLS, New Bedford, Mass.
Bleached and Brown Shirtings, Cambrics, &c.

WAUREGAN MILLS, Providence, R. I.
Brown and Bleached Cotton Goods.

WILLIMANTIC LINEN CO., Hartford, Conn.
Spool Cotton.

Class 34.—Silk and Silk Fabrics.

CHAFFANJON, C., Hudson City, N. J.
Silk Serges, Satins, and Dress Silks.

CROZIER, L. S., Williamsburg, Kansas.
Silk Cocoons, Eggs of Silk Worms, and Reeled Silk.

NONOTUCK SILK CO., Florence, Mass.
Spool Sewing Silk.

POLK, L. L., Raleigh, N. C.
Raw Silks.
See also Class 46.

STEARNS (JOHN N.) AND CO., New York City.
Manufactured Silk.

Class 36.—Lace, Net, Embroidery, and Trimmings.

BRUSH, VIRGINIA, New York City.
Ornamental Screen, Painted in Water Colours and Embroidered in Silk Floss.

CURTIS, GEO. H. W., New York City.
Specimens of Cutting, and Designs for Fine Shoes and Fine Machine Needlework.

CURTIS AND PARTRIDGE, New York City.
Gentlemen's Boots and Shoes.

WHEELER AND WILSON MANUFACTURING CO., New York City. Manufactory, Bridgeport, Conn.
Specimens of Sewing Machine Work.
See also Classes 7, 44, 54, 58, *and* 61.

WINN (Mrs. Mabel E.), New York City.
Specimens of Ornamental Needlework, made with Wheeler and Wilson's Sewing Machine.

Class 37.—Hosiery and Underclothing and Accessories of Clothing.

FLETCHER MANUFACTURING CO., Providence, R. I.
Shoe Strings.
See also Class 27.

NATIONAL SUSPENDER CO., New York City.
Suspenders and Suspender Webbings.

PALMO SUN-SHADE CO., New York City.
Sun-shades for protection against Sun-stroke, arranged so as not to interfere with any position in which the body of a person be placed during daily occupations.

SACHSE (F.) and SON, Philadelphia.
Shirts.

WARNER, BROS., New York City.
Patent Corsets.

WATERBURY BUTTON CO., Waterbury, Conn.
Metallic Buttons, Army, Navy, and other special designs.

Class 38.—Clothing of Both Sexes.

BENKERT (C.) and SON, Philadelphia.
Boots, Shoes, &c.

BURT, E. C., New York City.
Ladies' Boots and Shoes.

DEMOREST, Mr. and Mrs. JENNINGS, New York City.
Fashion Plates and Dress Models.

GOSSAMER RUBBER CLOTHING CO., Boston, Mass.
Rubber Clothing, Water and Heat Proof.

LIBBY, JAMES L., New York City.
Paper Collars and Cuffs, and Cloth Faced Paper Collars and Cuffs.

MASSEY, G. B., New York City.
Massey's Revolving Boot and Shoe Heel Protector.

MORRIS (E.) AND CO., Philadelphia.
Felt and Silk Hats.

NATIONAL RUBBER CO., Bristol, R. I.
Rubber Goods.

RAUCHFUSS, G., New York City.
Wigs, Toupees, and Hair Work.

ROBINSON, R., St. Louis, Mo.
Boots and Shoes.

SOLLERS (S. D.) AND CO., Philadelphia.
Children's and Infants' Shoes and Slippers.

STETSON, JOHN B., Philadelphia.
Soft and Stiff Fur, Felt Hats.

ZALLEE, JOHN C., St. Louis, Mo.
Suit of Men's Wearing Apparel.

Class 39.—Jewellery and Precious Stones.

BARROWS (H. F.) AND CO., New York City.
Rolled Plated Jewellery.

BLISS BROS. AND EVERETT, Attleboro, Mass.
Rolled Plated Jewellery.

BLISS AND DEAN, Attleboro, Mass.
Jewellery, Lockets, &c.

FISHER (S. E.) AND CO., North Attleboro, Mass.
Gilt Jewellery.

GREENE (WM. C.) AND CO., Providence, R. I.
Wire and Coral Jewellery.

HARTMAN, P., New York City.
Filigree Silver Jewellery.

McCALL AND NEWMAN, Philadelphia.
Filled Gold Rings.

MARCY (FRED. J.) AND CO., Providence, R. I.
Rolled Plate, or Soft Solder Jewellery.

MUHR'S (H.) SONS, Philadelphia.
Gold Rings and Lockets.

TIFFANY AND CO., New York City.
Diamond, Gem, Gold, and Enamelled Jewellery.
See also Classes 23, 24, 25, 29, *and* 43.

WHITNEY (F. G.) AND CO., North Attleboro, Mass.
Gilt Jewellery.

YOUNG AND BENNETT, North Attleboro, Mass.
Gilt Watch and Neck Chains.

Class 40.—Portable Weapons and Hunting and Shooting Equipments.

COLT'S PATENT FIRE ARMS CO., Hartford, Conn.
Guns and Pistols.

JONES, OWEN, Philadelphia.
Automatic Shell Extracting Revolvers. Extracts only empty shells, leaving the loaded cartridges in the cylinder.

LOVELL (JOHN P.) AND SONS, Boston, Mass.
Air Guns, Pistols, and Revolvers.

PROVIDENCE TOOL CO., Providence, R. I.
Fire Arms. Breech-loading Sporting Rifles, with their Various Parts, from a Rough to a Finished State.
See also Class 68.

REMINGTON (E.) AND SONS, Ilion, N. Y.
Breech-loading Fire Arms and Ammunition, Pistols, Shot-guns, Hunting and Target Rifles, and Ammunition for same. Metallic Cartridges.
See also Class 68.

SHARP'S RIFLE CO., Bridgeport, Conn.
Breech-loading Military and Sporting Rifles.
See also Class 68.

TATHAM AND BROS., New York City.
Shot.

Class 41.—Travelling Apparatus and Camp Equipage.

GOFF, LYMAN B., Pawtucket, R. I.
Package Carrier.

SIMON (EDWARD) AND BROS., Newark, N. J.
Trunks, Travelling Bags, and Materials for same.

Class 42.—Toys.

GRANDPERRET, LOUIS LÉON, New York City.
Mechanical Motor, and Toy Watch.

LAFLIN, J. M., New York City.
Rowing Apparatus for a Home Gymnasium, giving fifty different ways of exercises.

SCHLESINGER, LEO AND CO., New York City.
Tin and Mechanical Toys.

STEVENS, THE J. E. CO., Cromwell, Conn.
Iron Toys.

TOWER, WM. S., South Hingham, Mass.
Wooden Toys.

YVARD, AUGUST, New York City.
Scientific Toys of Demonstration.

Group 5.—Mining Industries, Raw and Manufactured Products.

Class 43.—Mining and Metallurgy.

BAILEY, LEONARD AND CO., Hartford, Conn.
Adjustable Iron Bench Planes, Try Squares and Bevels, Box Scrapers and Spokeshaves.

BAKER (J. R.) MANUFACTURING CO., New York City.
Anti-Friction, Non-Corrosive Metals.

BARNEY AND BERRY, Springfield, Mass.
Skates.

BARNUM, RICHARDSON AND CO., Lime Rock, Conn.
Salisbury Iron Ores, Charcoal Pig Iron, Car Wheels, &c.
See also Class 64.

BEVIN BROS. MANUFACTURING CO., East Hampton, Conn.
Bells: Sleigh, House, Hand, Gong, &c.

BOYD AND CHASE, New York City.
Oil Stone for Sharpening Artists' and Mechanics' Tools.

CALIFORNIA, STATE OF, California.
Minerals. (*See* Mineral Exhibit of the Pacific Coast.)

CHAPIN, J. S., New York City.
A Metallic Lock Faucet, for drawing Liquids from Casks, Cisterns, &c.

COLLINS AND CO., Hartford, Conn.
Axes, Hoes, and Edge Tools.
See also Class 76.

DISSTON (HENRY) AND SONS, Philadelphia.
Saws, and Saw Tools, Cane Knives, Tools for Carpenters, Plasterers, &c.

DIXON (JOSEPH) CRUCIBLE CO., Jersey City, N. J.
Lubricating Plumbago, Carburet of Iron, Stove Polish, &c.
See also Class 10.

DOUGLASS AXE MANUFACTURING CO., Boston.
Axes, Hatchets, &c.

DOVER STAMPING CO., Boston.
"Dover" Egg Beater.

EAGLESON AND DEVEAU, New York City.
Marbles.

FIELD (A.) AND SONS, Taunton, Mass.
Tacks, Nails, &c.

GEORGIA STATE GEOLOGICAL BUREAU, Atlanta, Ga.
Minerals of Georgia.

GLOBE HORSE-SHOE NAIL CO., Boston.
Horse-Shoe Nails, made by Machinery from Cold Rolled Iron.

GODDARD, CURTIS, Alliance, Ohio.
The little "Speedy" Corn Sheller.

GOULDS' (M.) SONS, New York City.
Stair Rods, Dog Collars, Stair Plates, Curtain Poles, and Trunk Hardware.

GREEN SERPENTINE MARBLE CO., Wilmington, Del.
Maryland Serpentine, or "Verde Antique" Marble.

HAGSTOZ AND THORPE, Philadelphia.
Parallel Pliers.
See also Class 26.

HANKS, HENRY G., San Francisco, Cal.
Minerals. (*See* Pacific Coast Mineral Exhibit.)

HINES AND GINNA, New York City.
Oil Tanks of Galvanized Iron, used as reservoirs by retail dealers of Illuminating and Lubricating Oils, and furnished for use of the Commission.

HOOPES AND TOWNSEND, Philadelphia.
Machine or Screw Bolts, Wood or Lag Screws, Boiler and Tank Rivets, Washers. Cold-punched Square and Hexagon Nuts, made by Machinery, producing entire accuracy and uniformity in the sizes of holes and in exterior shape, all surfaces being free from scale or crust. These Nuts are tapped and finished in less time, and with less wear of tools, than the usual hot-pressed or forged Nuts, the chamfer of regular shape and the bright finish of the sides making the rough cold-punched Nut the nearest approach to a polished one.

INDIAN INTERNATIONAL AGRICULTURAL SOCIETY, Muscogee, I. T.
Stone Coal.
See also Class 46.

JUSTICE, PHILIP SYNG, Philadelphia.
Iron and Steel produced from the ores direct, in reverberatory furnace, in from 4 to 6 hours, no blast furnace operations being required. Invented by Charles Meredith Du Puy, C.E.

LALANCE AND GROSJEAN MANUFACTURING CO., New York City.
Culinary Utensils of Tinned Iron, Planished Tin, Polished Iron, Copper and Brass, and Agate Iron, &c.

LOBDELL CAR WHEEL CO., Wilmington, Del.
Cast Chilled Iron Rolls for Calendering Paper.
See also Class 60.

McCURDY, Lime, Conn.
Granite.

McSHANE, HENRY AND CO., Baltimore, Md.
Church Bells and Mountings.

MALLORY, WHEELER AND CO., New Haven, Conn.
Reversible Door Locks, Wrought Iron Padlocks, Door Knobs and Handles in Mineral Porcelain and Bronze.

MANNING, BOWMAN AND CO., West Meriden, Conn.
Silver, Nickel and White Metal Mountings on Sheet Metal Ware, &c.

MERSEREAU, W. T. AND J., Newark, N. J.
Stair Rods.

MINERAL EXHIBIT OF THE PACIFIC COAST.
A Collection of about 2,500 Specimens of Gold, Silver, Lead, Copper, and other ores, and all the mineral products known to exist on the Pacific Coast.

MORRIS, WHEELER AND CO., Philadelphia.
Sample Card, showing Cut Nails.

MOWER, E., Roxbury Station, Conn.
Granite.

NEW ENGLAND GRANITE WORKS, Hartford, Conn.
Vase of Polished "Westerly" Granite. Three twelve-inch Cubes of Granite.

OHIO TOOL CO., Columbus, Ohio.
Carpenters' Hand Tools.

OREGON STATE COMMISSION, Portland, Oregon.
Building Stone.
See also Classes 44, 46, 47, *and* 69.

PACIFIC COAST MINERAL EXHIBIT.
A Collection of about 2,500 Specimens of Gold, Silver, Lead, Copper, and other ores, and all the mineral products known to exist on the Pacific Coast.

PENNSYLVANIA FILE WORKS. McCAFFREY AND BROTHER, Philadelphia.
Files and Rasps.

PETERS' COMBINATION LOCK CO., Waterbury, Conn.
Combination Locks for Drawers, Post Offices, Padlocks, Safes, &c.

PHILADELPHIA AND READING COAL AND IRON CO., Philadelphia.
American Anthracite Coal.

READING HARDWARE CO., Reading, Pa.
Household and other Hardware.

REDPATH, F. W., Stony Creek, Conn.
Granite for Building and Monumental Purposes.

ROBINSON, S. E., Newark, N. J.
Wrenches and Braces.

RUSSELL AND ERWIN MANUFACTURING CO., New Britain, Conn.
An assortment of Builder's, Cabinet, and General Hardware, and Tools, including a great variety of Door Locks, Padlocks, Handles, Bolts, Hinges, Fire-Irons, Pulleys, Sheaves, Chisels, Screw-drivers, Wrenches, and general Tools.
See also Classes 11, 25, 59, *and* 66.

ST. LOUIS STAMPING CO., St. Louis, Mo.
Granite Iron-Ware for Household Use.

SEWARD (M.) AND SON, New Haven, Conn.
Carriage Hardware.

SHELDONS AND SLOSSON, Rutland, Vt.
Blue Mottled Marble.

SHORT, F. W., New London, Conn.
Silex, Glass-sand, Feldspar, Quartz, Kaolin.

SMITH AND EGGE MANUFACTURING CO., Bridgeport, Conn.
Locks of Various Kinds, Automatically made Window Sash Chains, Specialties in Hardware, and Light Metallic Goods in General.

SNELL MANUFACTURING CO., Fiskdale, Mass.
Augers, Car Bits, Auger Bits, Inclinations, Pocket Levels.

TAYLOR (ROBERT) AND CO., Philadelphia.
Black Lead Crucibles, Covers, Dippers, Skimmer's Retorts for Distilling Zinc from Silver, &c.

THOMPSON, NATHAN, Brooklyn, N. Y.
Universal Window, Door, and Blind Fasteners.

TIFFANY AND CO., New York City.
Electro reproductions of Art Objects.
See also Classes 23, 24, 25, 29, *and* 39.

TOWER, JOHN J., New York City.
Iron Planes, Wrenches, Padlocks, &c.

WALTON, BROS., New York City.
Lanterns and Lamps, Air Leader Telegraph Pipe, Rigging Thimbles, Navy Galley, Steam Radiator, Conductors' Punch, &c.

WELSH AND LEA, Philadelphia.
Bolts and Nuts for Vehicles.

WEST VIRGINIA, State of.
Limestone, Ores, Coal, Cannel Coal, Coke, Ochre, Sandstone, Freestone, Hydraulic Cement.
See also Classes 44, 46, *and* 69.

WHARTON, Jos., Philadelphia.
Nickel and Cobalt Ores and Products.

WHEELER (F.) AND CO., Ohio.
Rapid Dressing Slate Machinery.

WHITNEY (A.) AND SONS, Philadelphia.
Car Wheels.
See also Class 64.

WILSON AND BLYE, New York City.
Oil Tank or Safes, for exhibition and for use of commission.

WIMAN, E., New York City.
Cash Register Stamp.

YALE LOCK CO., Stamford, Conn.
Section of Post Office Locks, Bronze Hardware, Time and Bank Locks.

Class 44.—Products of the Cultivation of Forests and of the Trades appertaining thereto.

CLAPP (B. P.) and Co., Pawtucket, R. I.
Woods, and their Products, obtained from them by Dry Distillation.

CRAWFORD (L.) AND CO., Chase's Lake, N. Y.
Hemlock Bark and Extract.

JOHNSON, J. E., St. George, Utah.
Ephedra Antisyphillitica (plant used for tanning).

JONES, SNYDER AND YOUNG, Richmond, Va.
Quercitron Bark.

LIPPINCOTT, WILLIAM H., Philadelphia.
Banner or Shield, exhibiting a variety of Native American Woods.

MACATEE AND BRO., Front Royal, Va.
Sumac in Various Stages of Manufacture.

OREGON STATE COMMISSION, Portland, Oregon.
80 Varieties of Woods of the State.
See also Classes 43, 46, 47, 69, *and* 73.

PRINGLE, C. G., Charlotte, Vt.
Woods and Barks.

ROBERTS AND CO., New Orleans, La.
Cypress Doors, &c.

SHORT, H. B., Flemington, N. C.
Cypress Shingles.

SMITH, GERMAN, Winchester, Va.
Sumac (Leaf and Ground), Quercitron Bark (Ground and in Stick).

UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C. W. G. Le Duc, Commissioner.
407 Specimens of Woods of Forest Trees. One large Plank of Redwood, and Photographs of some of the most Useful and Ornamental Trees of America.
See also Classes 46, 47, 51, 69, 73, *and* 83.

WEST VIRGINIA, STATE OF.
Woods, Willows, and Veneers.
See also Classes 43, 46, *and* 69.

WHEELER AND WILSON MANUFACTURING CO., New York City. Manufactory, Bridgeport, Conn.
Cabinet Work for Sewing Machine Cases.
See also Classes 7, 36, 54, 58, *and* 61.

WILSON (D. H.) AND CO., New York City.
Corn Brooms, and Wooden Ware, and House Furnishing Goods.

WOODWARD, A., Memphis, Tenn.
Fancy and Fine-grained Woods.

YOUNG (J. S.) AND CO., Hanover, Pa.
Quercitron Bark; bolted, ground, and extract. Flavine in various stages of manufacture.

Class 45.—Products of Hunting, Shooting, Fishing, and Spontaneous Products, Machines and Instruments connected therewith.

BAEDER, ADAMSON AND CO., Philadelphia.
Glue, Emery, Sand Paper, Hair, Moss, &c.

BOOSS (F.) AND BRO., New York City.
American Furs and Fur Clothing.

CUMMINGS AND LOCKWOOD, New York City.
Curled Hair, &c.
See also Classes 46 *and* 51.

SHIELDS, J., Brooklyn, Mass.
Fishing Tackle, as Silk Lines and Artificial Flies.

TOBIN, JOSEPH F., New York City.
Manufactured Whalebone.

Class 46.—Agricultural Products not used for Food.

ALLEN (J. F.) AND CO., Richmond, Va.
Tobacco in all Forms.

ARCHER, T. A., New Orleans, La.
Broom Corn and its Manufacture.

AUGUSTA COTTON EXCHANGE, Augusta, Ga.
Cotton.

BIENVILLE OIL WORKS CO., New Orleans, La.
Products from Cotton Seed.

BRAND (J. H.) AND CO., Louisville, Ky.
Tobacco.
See also Class 74.

BUCKNER, S. C., Hopkinsville, Ky.
Tobacco.

BULLARD (D. A.) AND SONS, Schuylerville, N. Y.
Straw Paper Pulp and Paper made from Rye Straw.
See also Class 10.

BURGEOIS, EDMUND, New Orleans, La.
Perique Tobacco.

BUSH, LOUIS, New Orleans, La.
Moss, for Bedding, Packing, &c.

CAREW MANUFACTURING CO., Turner's Falls, Mass.
Paper Stock and Paper.

CLARDY, J. D., Newstead, Ky.
Leaf Tobacco.

CLARKE, JAMES, Louisville, Ky.
Leaf Tobacco.

CLARKE (M. H.) AND BRO., Clarksville, Tenn.
Tobacco.

COCKRILL, M. S., Nashville, Tenn.
Merino Wool.

CONNECTICUT BOARD OF AGRICULTURE, Hartford Conn. P. M. Augur, Secretary of State Board of Agriculture, Middlefield.
Leaf Tobacco.
See also Class 69.

CRANE AND CO., Dalton, Mass.
Paper Stock.
See also Class 10.

CRUTCHFIELD, TOM, Chattanooga, Tenn.
Wool.

CUMMINGS AND LOCKWOOD, New York City.
Neats Foot Oil.
See also Classes 45 *and* 51.

DE GAS, RENE, New Orleans, La.
Cotton.

DILL, JOSEPH T., Charleston, S. C.
Sea Island Cotton.

DUKE, B. L., Durham, N. C.
Smoking Tobacco.

FRISHMUTH BROS. AND CO., Philadelphia.
Manufactured Tobacco.

GOGIN, C. L., New Orleans, La.
Ramie Fibre.

HALLOWAY, THOS., Pomaria, S. C.
Seed Cotton.

HEATH, PIPPEY AND LARA, New Orleans, La.
American Moss.

HIATT (E. J.) AND BRO., Chester Hill, Ohio.
Merino Wool.

HISTER, HENRY G., New Orleans, La.
Cotton.

INDIAN INTERNATIONAL AGRICULTURAL SOCIETY, Muscogee, Indian Terr.
Tobacco.
See also Class 43.

INDIANAPOLIS BOARD OF TRADE, Indianapolis, Ind.
Linseed Oil.
See also Class 69.

JENKINS (E. C.) AND CO., Louisville, Ky.
Leaf Tobacco.

JONES, H. B., Hillsboro', N. C.
Smoking Tobacco.

JORDAN, J. W., Muscogee, Indian Terr.
Cotton.

KIMBALL (WM. S.) AND CO., Rochester, N. Y.
Tobacco and Cigarettes.

KLINCK, WICKENBERG AND CO., Charleston, S. C.
Sea Island Cotton.

KNAPP, FRED. JAMES, New Orleans, La.
Ramie Plant, in various Stages, and Fabrics made from the same.

LEFRANC, E., Philadelphia.
Ramie Fibre.

LIFTEN, BEN., Muscogee, Indian Terr.
Tobacco.

LORRILLARD (P.) AND CO., Jersey City, N. J.
Tobacco and Snuff.

LOTTIER, LAWRENCE, Richmond, Va.
Tobacco.

LOUISIANA OIL CO., New Orleans, La.
Specimens of Cotton Seed, Raw and Hulled, Oil, Sinters, and Hulls.
See also Class 69.

MAGINNIS (A. A.) SONS, New Orleans, La.
Cotton Seed Oil.

McPHERSON, SAMUEL, Louisville, Ky.
Leaf Tobacco.

MELLEN, LUCIUS F., West Springfield, Mass.
Connecticut Seed Leaf Tobacco.

MEMPHIS COTTON EXCHANGE, Memphis, Tenn.
One Bale of Cotton.

MONTAGUE PAPER CO., Turner's Falls, Mass.
Wood Pulp for Paper.
See also Class 10.

NEW ORLEANS COTTON EXCHANGE, New Orleans, La.
Cotton, Samples of the grades sold in the Market of New Orleans.

NYE, Wm. F., New Bedford, Mass.
Oils for Watch, Clock, and Chronometer use.

OREGON STATE COMMISSION, Portland, Oregon.
Fleece, Merino Wool, Broom Corn, Feathers, Ferns, Mosses, &c., Hops.
See also Classes 43, 44, 47, 69, *and* 73.

POLK, L. L., Raleigh, N. C.
Jute.
See also Class 34.

POTTS, S. C., Columbus Co., N. C.
Grey Moss.

RAY, Jno. P., Honeoye, N. Y.
American Merino Wools.

RICAND, Jno., St. James' Parish, La.
Perique Tobacco and Cigarettes.

RUSSELL and HALL, New Orleans, La.
Perique Tobacco.

SANAZIN, P. E., New Orleans, La.
Snuff, Tobacco, and Chewing Perique Tobacco.

SHELTON TOBACCO CURING CO., Asheville, N. C.
Tobacco.

SMITH (Thos. P.), McIVOR and CO., Charleston, S. C.
Sea Island Cotton.

THURBER (H. K.) and F. B. and CO., New York City.
Cotton Seed, Cotton Seed Oil for lubricating purposes.
See also Classes 69, 71, 72, 73, *and* 74.

TISCH, David, Oakland, Cal.
Pampas Grasses.

TROWBRIDGE, W. H., Danville, Va.
Smoking Tobacco.

TUSTEN, H. T., Abbeville, S. C.
Stalk of Cotton, and Seed Cotton.

UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C. W. G. Le Duc, Commissioner.
Fibres and Material employed in the Manufacture of Paper, and Textile Fabrics, Wools.
See also Classes 44, 47, 51, 69, 73, *and* 83.

WALLACE, SHIPPEN, Philadelphia.
Oil of Cedar.

WEST VIRGINIA, STATE OF.
Tobacco.
See also Classes 43, 44, *and* 69.

WEYMAN BROS., Pittsburg, Pa.
Snuff, showing Process of Manufacture; Cut and Dry Smoking Tobacco.

WILKENS, H., Baltimore, Md.
Leaf Tobacco, Smoking Tobacco, and Snuff.

WILLIAMS (THOS. C.) AND CO., Richmond, Va.
Virginia Leaf Tobacco, Specimens in Various Stages of Preparation for use.

Class 47.—Chemical and Pharmaceutical Products.

BAKER (H. J.) AND BRO., New York City.
Castor Oil, Borax, Refined Saltpetre, Camphor, and Refined Epsom Salts.

BLACKMAR AND ALLERTON, Newark, N. Y.
Oil of Peppermint.
See also Classes 69 *and* 73.

BOLEN AND BYRNE, New York City.
Mineral Waters and Apparatus; Siphons and Aërated Beverages.

BOWER, HENRY, Philadelphia.
Glycerine and Sulphate of Ammonia.

CHARD, R. J., New York City.
Lubricine and Automatic Lubricating Cups.
See also Class 54.

CHESEBROUGH MANUFACTURING CO., New York City.
Vaseline: a concentrated Essence of Petroleum, used for Medical, Pharmaceutical and Toilet Purposes, in different forms: as Pomade Vaseline, Cold Cream, Camphor Ice, Soap, Camphorated Vaseline, and Veterinary Vaseline.

COOKE, Geo. A., Philadelphia.
Medicated Herbaline Catarrh Cigarettes.

DAY, Austin G., New York City.
Kerite Insulated Telegraph Wire, and Cables. Kerite: a substitute for India Rubber Clothing. Articles manufactured from Kerite and India Rubber.

DE MORTIE, M., Burkeville, Va.
Oil of Sassafras.

DRISCOLL, T. D., Well Water, Va.
Oil of Sassafras.

EVANS (J. P.) and CO., Indianapolis, Ind.
Flax Seed. Linseed Oil and Meal.
See also Class 69.

FALLER, Geo. J., Philadelphia.
Sewing Machine Oil.

FORSTALL and LAROSE, New Orleans, La.
Pine Tar, Spirits of Turpentine, Rosin, &c.

FRAZER LUBRICATOR CO., New York City.
Axle Grease.

FREELAND, Robt., South Boston, Mass.
Laundry, Toilet, and Manufacturers' Soap.

FRITZSCHE BROS., New York City.
Essential Oils.

HALE and PARSHALL, Lyons, N. Y.
Essential Oils: Peppermint, Wintergreen, &c.

HANCE BROS. AND WHITE, Philadelphia.
Chemical and Pharmaceutical Preparations.

HARDRICH (H. G.) AND SONS, Philadelphia.
Harness Oil.
See also Class 63.

HAUTHAWAY (C. L.) AND SONS, Boston, Mass.
Blacking, and Dressing for Leather.

HOTCHKISS, H. G., Lyons, N. Y.
Essential Oils.

HOTCHKISS, L. B., Phelps, Ontario Co., N. Y.
Essential Oils.

HOUGHTON (E. F.) AND CO., Philadelphia.
Cosmoline, or Concentrated and Purified Petroleum. Cosmoline Lubricating Oils.

HURTT (F. W.) AND BROS., New York City.
Chemicals, Perfumes, and Toilet Articles.

KEITH (B.) AND CO., New York City.
Oil of Erigeron.

LEONARD AND ELLIS, New York City.
Lubricating Oils.

McKESSON AND ROBBINS, New York City.
American Crude Drugs and Essential Oils.

MELLOR AND RITTENHOUSE, Philadelphia.
Extract of Liquorice Root.

OREGON STATE COMMISSION, Portland, Oregon.
Raw and Boiled Linseed Oil, Linseed Cake.
See also Classes 43, 44, 46, 69, *and* 73.

PEASE, F. S., Buffalo, N. Y.
Illuminating and Lubricating Oils, for exhibition and for use of Commission.

PHILADELPHIA COLLEGE OF PHARMACY, Philadelphia.
Collection of American Drugs.

PIRZ, ANTHONY (Carniola Chemical Works), Long Island City, N. Y.
Sugar of Lead.

RESTORFF, BETTMANN AND CO., New York City.
Leather Dressing and Bronze.

SCHIEFFELIN (W. H.) AND CO., New York City.
Soluble Coated Pills.

SEABURY AND JOHNSON, New York City.
Pharmacopœia, Medicinal and Surgical Plasters.

SMITH'S HOMŒOPATHIC PHARMACY, New York City.
Homœopathic Preparations; "Alkethupta," a Preparation of Chocolate.

TILDEN AND CO., New York City.
Crude Materials of American Medicinal Plants, such as roots, leaves, barks, berries, &c. Their active principles, solid extracts, and fluid extracts. Fine chemicals and pharmaceutical preparations. Pills, Sugar and Gelatine Coated, Lozenges.

TILDEN (WM.) AND STOKES, New York City.
Varnishes.

TODD, ALBERT M., Nottowa, Michigan.
Essential Oils: Peppermint, Spearmint, Erigeron, &c.

TUNYOAP MANUFACTURING CO., Boston, Mass.
Tunyoap: a dressing intended to render Leather soft, more durable, and as perfectly waterproof as India-rubber, and takes a fine polish with blacking.

UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C. W. G. Le Duc, Commissioner.
Essential Oils.
See Classes 44, 46, 51, 69, 73, *and* 83.

VALENTINE AND CO., New York City.
Varnishes.

WALLACE BROS., Statesville, N. C.
Medicinal Plants, Herbs, Flowers, &c.

WARNER (WM. R.) AND CO., Philadelphia.
Sugar-Coated Pills, and Pharmaceutical Products.

WHITE (CHAS. T.) AND CO., New York City.
Pharmaceutical Chemicals.

WOLF BROS. AND KEECH, Centreville, Mich.
Essential Oils of Peppermint, Spearmint, Wormwood, Tansy, and Erigeron.

WYETH (JOHN) AND BROTHER, Philadelphia.
Pharmaceutical Preparations, Elixirs, Compressed Powders, Saccharated Pepsin, Dialysed Iron, &c.

YOUNG (D. M.) AND CO., Boston, Mass.
Extract of Bark.

Class 49.—Leather and Skins.

ADAMS AND KEEN, Philadelphia.
Curaçoa Brush Kid.

ADAMS AND SHALER, New York City.
Extract of Bark.

BARNES AND MERRITT, New York City.
Hemlock Leather.

BRAUN, FREDERICK, Philadelphia.
Bark Tanned Calf and Kip Skins.

BROWN, B. F., Boston, Mass.
Blacking.

BULKLEY (J. E.) AND SON, New York City.
Sole Leather.

BUTLER, DUNN AND CO., Boston, Mass.
Buff and Split Leather.

CALLERY (JAS.) AND CO., Pittsburg, Pa.
Leather, for Belting.

CHATFIELD AND GOULD, New York City.
Leather.

DRYDOPPLE, Wm., Philadelphia.
Borax Soap.

FRANTZ (D.) and SON, Louisville, Ky.
Leather.

GAENSSLER BROS., Gowanda, N. Y.
Sole Leather.

GROETZINGER, A. and J., Alleghany, Pa.
Oak Sole Leather.

HOLLINGER, Amos, Lancaster, Pa.
Leather.

HORTON, G. B., New York City.
Hemlock Sole Leather.

HURKAMP, J. G., Fredericksburg, Va.
American Sumac.

JEWELL (P.) and SONS, Hartford, Conn.
Leather and Leather Machine Belting.
See also Class 54.

KAUFMAN (F.) and CO., New York City.
Leather.

KECK and MOSSER, New York City.
Union Crop Leather.

LAPHAM, O. K., New York City.
Sole Leather.

LAPHAM, SMIBERT and CO., Chicago, Ill.
Leather.

LEAS and McVITTY, Philadelphia.
Oak-Tanned Sole Leather.

PALEN (Geo.) and CO., New York City.
Hemlock Sole Leather.

ROSS, Joshua, Muscogee, Indian Terr.
Dressed Buckskin.

SCHULTZ, SOUTHWICK and CO., New York City.
Sole Leather.

STUDWELL, SANGER AND CO., New York City.
Finished Leather.

THORNE, McFARLANE AND CO., New York City.
Sole Leather.

UNDERWOOD BELTING CO., Tolland, Conn.
809. Main Belts, for use of Commission. One 24 inches wide; one 18 inches wide, in use in Machinery Gallery. Two Angular Belts in Agricultural Hall.

WALKER, OAKLEY AND CO., Chicago, Ill.
Sole Leather.

ZIPP, PHILIP C., Baltimore, Md.
Wax Calf Skins, and Boarded Grain Kips, Oak Tanned.

Group 6.—Apparatus and Processes used in the Mechanical Manufactures.

Class 50.—Apparatus and Processes of the Art of Mining and Metallurgy.

AIKEN AND DRUMMOND, Louisville, Kentucky.
Machine for Making Moulds for all classes of Metal Castings, and may be operated by steam power or by hand.

FAIRBANKS (E. AND F.) AND CO., St. Johnsbury, Vt.
Iron Scales for Foundries, Rolling Mills, &c.
See also Classes 6, 10, 15, 54, 64, *and* 76.

HOWE SCALE CO., Rutland, Vt.
Weighing Apparatus for Mines, Foundries, Furnaces, &c
See also Classes 6, 10, 52, 54, 64, 68, *and* 76.

LECHNER MINING MACHINE CO., Columbus, Ohio.
Model of Machine for Mining Coal.

STRIEDINGER AND DOERFLINGER, Brooklyn, N. Y.
Model of Blasting Apparatus as used for the great explosion at "Hell Gate," N. Y.

WESTON DYNAMO-ELECTRIC MACHINE CO., Newark, N. J.
Process of Electroplating, Electrotyping, &c., and Electric Light Telegraphing, by Means of Electricity from Motion.

Class 51.—Agricultural Implements and Processes used in the Cultivation of Fields and Forests.

AMES, OLIVER AND SONS, North Easton, Mass.
Shovels, Spades, &c.

AUBURN MANUFACTURING COMPANY, Auburn, N. Y.
Agricultural Hand Implements: as Forks, Hoes, &c.

BATCHELLER AND SONS, Wallingford, Vt.
Agricultural Forks.

BAUGH AND SONS, Philadelphia.
Chemical Fertilizers, and Raw Bone Material for same.
See also Class 52.

BROWN, HINMAN AND CO., Columbus, Ohio.
Garden and Farming Tools.

CALVERT SUGAR REFINING CO., Baltimore, Md.
Scum, used for manufacture of Fertilizers.

COOK, GEO. H., New Brunswick, N. J.
Greensand Marls.

CUMMINGS AND LOCKWOOD, New York City.
Bones for Fertilizers.
See also Class 45.

DUBRIL (N.) AND CO., Cincinnati, Ohio.
Cigars and Cigar Moulds.

DUNAN, W. S., Baltimore, Md.
Ammonia, Bone Phosphate, and other Raw Materials employed in manufacture of Fertilizers.

EDWARDS, V. N., Woods Hole, Mass.
Rock and Gulf Weeds.

McGUIRE, THOMAS D., Philadelphia.
Solid Top Cigar Moulds.

SHEBLE AND FISHER, Philadelphia.
Forks, Drags, Cast-steel Rakes, &c.

UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C. W. G. Le Duc, Commissioner.
Bat and Fish Guano, South Carolina Phosphates, Dried Blood, &c.
See also Classes 44, 46, 47, 69, 73, *and* 83.

WALKER AND DOUGHERTY, Philadelphia.
Bat Guano.

WITHINGTON AND COOLEY MANUFACTURING CO., Jackson, Mich.
Garden and Farming Tools.

Class 52.—Apparatus and Processes used in Agricultural Works, and in Works for the Preparation of Food.

BAUGH AND SONS, Philadelphia.
Sectional Mills adopted to the reduction of Minerals, Bones, &c.
See also Class 51.

BERGNER, THEODORE, Philadelphia.
Wire Floor for Malt Kilns, made by special machinery invented by the exhibitor. Vastly increased area for passage of Hot Air, combined with smoothness and great strength of surface.

BLATCHLEY, C. G., Philadelphia.
Ice Cream Freezers.

CHADBURN AND COLDWELL, Newburgh, N. Y.
Automatic Beef Cutters.
See also Class 76.

HOWE SCALE CO., Rutland, Vt.
Weighing Apparatus for Cheese Factories, Dairies, and Flour Mills.
See also Classes 6, 10, 50, 54, 64, 68, *and* 76.

MATTHEWS, JOHN, New York City.
Soda Water Apparatus, for dispensing pure Soda Water, and other Aërated Beverages. Marble and Steel Portable Fountains for the transportation of Aërated Beverages, made of Steel and Iron.

PACKER, CHARLES W., Philadelphia.
Ice Cream Freezers, Cogwheel, Double-action and Confectioners'.
See also Class 60.

RICHARDSON, D. M., Detroit, Mich.
Wheat Polisher and Separator.

Class 54.—Machines and Apparatus in General.

ALLEN AND ROEDER, New York City.
Pneumatic Riveting Machinery, and Air Compressor.

BAGGER, LOUIS, Washington, D. C.
Friction Glass Bearings, Cross Heads, Cylinder Packing Rings, &c.
See also Class 10.

BANNER (GEO. E.) AND ANNA G. FALES, New York City.
Steam Engine of One-Horse Power.

BROOKS, EZRA, Hartford, Conn.
"Hartford" Automatic Pumps, worked by Wind Power or by Steam.

BROWN CALORIC ENGINE CO., New York City.
Improved Caloric Engine, Self-feeding.

CHARD, R. J., New York City.
Automatic Lubricating Cups.
See also Class 47.

CLOUGH AND WILLIAMSON, Newark, N. J.
Steel Wire Screws, and Machines for making the same.

CRESSON, GEO. V., Philadelphia.
Shaftings, Pulleys, Couplings, &c., furnished free of cost for use of Commission, and for exhibition.

DOUGLAS, W. AND B., Middletown, Conn.
Pumps of all descriptions, both hand and power; for house, factory, yard, or farm use. Hydraulic Rams, Garden Engines, Drive Well Pumps, and Points, Grindstone Frames, and Trimmings, Yard Hydrants, and Street Washers.

EDSON, MARMONT B., New York City.
Automatic Recording and Alarm Gauge, for recording Revolutions and Pressure of Steam, Water, and other Fluids, giving time of variations, and operating a Gong Alarm.

ERVIEN, CHARLES W., Philadelphia.
Horizontal and Vertical Non-Condensing Steam Engine, sent for use of Commission.

FAIRBANKS (E. AND T.) AND CO., St. Johnsbury, Vt.
Scales and Weighing Machines, and Cotton Beam Frame.
See also Classes 6, 10, 15, 50, 64, 76.

FALES, THOS. J. (Agent), New York.
Baxter Portable Steam Engines, of 2, 4, 8, and 10-horse power. One 6-horse power Engine for use of Commission.

GREEN, DAVID C., New York City.
Feed Water Heater.

HANCOCK INSPIRATOR CO., Boston.
An Injector for feeding Water to Boilers, and for elevating Water, having a "lifting" capacity of 25 ft.

HARRINGTON (EDWIN) AND SON, Philadelphia.
Screw Hoisting Machines for exhibition, and for use of Commission.

HEIM, ANTON, New York City.
Leather Belting, Hydraulic Packing Leather, Lithographic Roller, &c.

HERCULES LEVER JACK CO., Newark, N. J.
Hercules Lever Jack Hand Power Press.

HOWE SCALE CO., Rutland, Vt.
Improved Scales and Weighing Machines.
See also Classes 6, 10, 50, 52, 64, 68, *and* 76.

HOYT (J. B.) AND CO., New York City.
Machine Belting.

JEWELL (P.) AND SONS, Hartford, Conn.
Leather Machine Belting.
See also Class 49.

LANDIS, EZRA F., Lancaster.
Improved "Eclipse" Fan Blower.

LOVEGROVE AND CO., Philadelphia.
Steam Engine and Boiler, Combined, Two-Horse Power.

MASON, A., New York City.
Embroidery Attachments for Sewing Machines.
See also Class 58.

MASON, VOLNEY (W.) AND CO., Providence, R. I.
Friction Clutch-Pulleys, and Elevator Hoisting Machinery.

NASON MANUFACTURING CO., New York City.
"Steam Traps" to release Steam Pipes from Water of Condensation.

NATHAN AND DREYFUS, New York City.
Injectors and Ejectors (Steam Pumps).

NEW YORK SAFETY STEAM POWER CO., New York City.
Horizontal, Vertical, and Launch Engines for Exhibition and for use of Commission.

OSCILLATING PUMP CO., New York City.
Force and Bilge-Pumps.

PENTLARGE, R., New York City.
Patent Vent Bung.

PICKERING (T. R.) AND CO., Portland, Conn.
Steam Engine Governors with Improved Automatic Stop Motion, and Speed Adjuster. For use of Commission on Engines in U.S. Section.

REED, JOHN VAN D., New York City.
Canvas Hose, single and multiply.
See also Class 57.

RICHARDS, Chas. B., Hartford, Conn.
Indicator, for Steam Engines, for presentation to the "Conservatoire des Arts et Métiers," Paris, at close of Exhibition.

SCHIEREN, Chas. A., New York City.
Leather Belting.

SNYDER BROS., New York City.
Snyders' "Little Giant" Steam Engines, One and Two-Horse Power.

STOW FLEXIBLE SHAFT CO., Philadelphia.
Flexible Shafts with Drill Presses, Wood Boring Tools, Stone Finishing Plant, Metal, &c., Polishing Brushes and other Tools to be operated by Flexible Shafts.

TAYLOR MANUFACTURING CO., Westminster, Md.
One 10-horse power vertical portable "Boss Clipper" Farm Engine; one 10-horse horizontal portable "Dry Steam" Farm Engine; one 20-horse power horizontal semi-portable Engine; two Engines for use of Commission; one model of Clipper Engine, $\frac{1}{8}$-horse power.
See also Class 76.

WHEELER and WILSON MANUFACTURING CO., New York City; Manufactory, Bridgeport, Conn.
Sewing Machine Attachments.
See also Classes 7, 36, 44, 58, *and* 61.

WHEELOCK, Jerome, Worcester, Mass.
Horizontal Non-Condensing Steam-Engine, 17 inches bore of Cylinder, 48 inches stroke of Piston, with Wheelock's Patent Automatic Variable Cut-off Mechanism; Wheelock's Patent Packing for Pistons. This Engine is used for the transmission of motive power for the United States, Norwegian and Swedish Departments.

Class 55.—Machine Tools.

BLAKE CRUSHER CO., New Haven, Conn.

Working Model of Blake's Patent Stone and Ore Crusher: a Machine for reducing rapidly and economically large pieces of Stone, or other hard and brittle substances, by the use of upright, convergent jaws, one of which has a short, vibratory motion.

BLISS AND WILLIAMS, Brooklyn, N. Y.

Presses, Dies, and Machines for making Tin-Ware, and Working Sheet Metals. Two Presses for Cutting, Drawing, and Stamping in one operation. One Press for Drawing. One Lathe for Spinning, Trimming, and Wiring at one setting. Combination Dies for performing different operations at one time. One Machine for Cutting, Drawing, and Stamping Sardine Boxes in one operation. One Machine for Cutting and Forming three Covers in one operation. One Machine for Trimming the Sardine Boxes. One machine for Beading the same.

BROWN AND SHARPE MANUFACTURING CO., Providence, R. I.

Machine Tools; Universal and Plain Milling Machines; Grinding, Screw, and Tapping Machines; Screw Finishing and Polishing Machines; Cutters, for Gear Wheels and Taps, Reamers, Twist Drills, &c.

DE LAMATER (C. H.) AND CO., New York City.

D. L. Kennedy's Patent Concentrated Power Shearing and Punching Machines.

DEVENS, HENRY, Brattleboro', Vt.

Automatic Screw-Making Machine.

FLANDERS, L. B., Philadelphia.

Rotary Valve-seat Planing Machine.

MORSE TWIST, DRILL AND MACHINE CO., New Bedford, Mass.

The "Morse" Patent Twist Drill and other Machinists' Tools.

NORTHAMPTON EMERY WHEEL CO., Leeds, Mass.
Patent Solid Emery Wheels, and Emery Wheel Machinery.

PANCOAST AND MAULE, Philadelphia.
"Acme" Patent Gas-pipe Cutter.

SLOAN, THOMAS J., New York City.
Automatic Machine for making Wood Screws.

STEPHENS PATENT VISE CO., New York City.
Vises and Attachments, and Planer Chucks.

WHITON, D. E., West Stafford, Conn.
Lathe Chucks, Gear Cutters, Centring Machines.

WILEY AND RUSSELL MANUFACTURING CO., Greenfield, Mass.
Screw Plates, Bolt Cutting Machines, Friction Pulleys, Drilling Machines, Tire Upsetters, &c.

Class 56.—Apparatus and Processes used in Spinning and Rope Making.

ELLIOTT, MRS. S. A., Oxford, N. C.
Silk Reel, for use in Factories and in the Household.

Class 57.—Apparatus and Processes used in Weaving.

REED, JOHN VAN D., New York City.
Circular Loom for Weaving Multiply Fabrics.
See also Class 54.

TILT (B. B.) AND SON, Paterson, N. J.
Jacquard Power Silk Loom.

Class 58.—Apparatus and Processes for Sewing and for Making up Clothing.

AMERICAN BUTTON-HOLE, OVERSEAMING AND SEWING MACHINE CO., Philadelphia.
Sewing Machines, with Self-Threading Shuttles, for Button-Hole, Overseaming, and Plain Work.

GOODYEAR, HENRY B., New York City.
Machines, for Making Boots and Shoes.

JAMISON (S. W.) BOOT AND SHOE CRIMPING MACHINE CO., New York City.
Machines for Crimping Leather.

MASON, A., New York City.
Machines for Making Embroidery on Cloth and other Fabrics.
See also Class 54.

PHILLIPS (M. V.) AND CO., Providence, R. I.
Fringing Machine.

VICTOR SEWING MACHINE CO., Middleton, Conn.
Drill Chucks and Micrometer Callipers.

WARDWELL MANUFACTURING CO., St. Louis, Mo.
Two-Spool Lock-Stitch Sewing Machines.

WHEELER AND WILSON MANUFACTURING CO., New York City. Manufactory Bridgeport, Conn.
Sewing Machines for general use.
See also Classes 7, 36, 44, 54, *and* 61.

Class 59.—Apparatus and Processes used in the Manufacture of Furniture and Objects for Dwellings.

DAVIS LEVEL AND TOOL CO., Springfield, Mass.
Levels.

FAY (J. A.) AND CO., Cincinnati, Ohio.
Machines for reduction of Lumber and manufacture of Furniture. A collection of seventeen machines, for cutting and manufacturing wood into shapes for house-building, furniture, waggon and carriage work, &c.

GREGG, WM. L., Philadelphia.
Brick Making Machine (Triple Pressure), and specimen Bricks.

KNAPP DOVETAILING MACHINE CO., Northampton, Mass.
Machine for Dovetailing Cabinet and other Woodwork.

OSBORNE (C. S.) AND CO., Newark, N. J.
Saddlers' and Harness Makers' Tools.

ROGERS (C. B.) AND CO., New York City.
Wood Working Machinery. Band and Scroll Saws. Planer.

RUSSELL AND ERWIN MANUFACTURING CO., New Britain, Conn.
Wood Working Tools, Augers, Bits, Chisels, Gouges, Screwdrivers, &c.
See also Classes 11, 25, 43, *and* 66.

STANLEY RULE AND LEVEL CO., New Britain, Conn.
Carpenters' Tools.
See also Class 15.

TRUMP BROTHERS, Wilmington, Del.
Foot Power Scroll Saws, and Specimens of Work made with them.

Class 60.—Apparatus and Processes used in Paper-making, Dyeing, and Printing.

BRUCE (GEORGE), SON AND CO., New York City.
Specimen Book of Printing Types.

COLLINS (SHELDON) AND CO., New York City.
Black Ink.

CONNERS (JAMES) SONS, New York City.
One Complete outfit of Plain and Ornamental Types, Borders, Rules, &c.

DAUGHADAY (J. W.) AND CO., Philadelphia.
Job Printing Presses, Hand and Foot Power adapted to every class of fine job work, and general mercantile printing.

FARMER, LITTLE AND CO., New York.
Script Types, the Capital Letters of which form complete Upper Case Fonts respectively, for three styles of Lower Case Letters. Also, Fonts of other Modern Script faces.

GALLY, MERRITT, New York City.
Power Printing and Embossing Presses.

HOYT, A. C., New York City.
Specimens of Twenty-two different Grades and Colours of Printing Inks, specially adapted for the finest class productions.

LOBDELL CAR WHEEL CO., Wilmington, Del.
Cast Chilled Iron Car Wheels.
See also Class 43.

MACKELLAR, SMITHS AND JORDAN, Philadelphia.
1. Specimen Book of Printing Types, &c. 2. Types, Borders, and Rules.

MECHANICAL PRINTER'S QUOINS (BENJ. F. ALLEN), Boston, Mass.
A noiseless and effective device for use in "locking up" Printers' Formes, making changes on press for colours or register without disturbing the correct position of Forme.

PACKER, CHARLES W., Philadelphia.
Paper Box Manufacturers, Machines for oval cutting, circular cutting, and for cutting straight sides with semicircular ends.
See also Class 52.

PAGE (W. H.) WOOD TYPE CO., Norwich, Conn.
Specimens of Wood Printing Type, and Printing from the same.

VANDERBURGH, WELLS AND CO, New York City.
Specimen Fonts of English and German faces of Wood Type, Wooden Rulers, Corners, Logotypes, Indexes, &c.; Specimen Book of Borders, Types, &c.; also one

Black Walnut 36-case Cabinet; one 16-case Full Galley Top Cabinet; one 20-case $\frac{3}{4}$-Flap Top Cabinet; one 28-case "Eagle" Stand.

Class 61.—Machines, Instruments, and Processes used in Various Works.

ADAMS AND TAGGART, Watertown, N. Y.
Machines for Making Paper Bags.

BAILEY WRINGING MACHINE CO., New York City.
Clothes Wringers for Household and Manufacturing Purposes.

SHERWOOD, PETER M., New York City.
Automatic Bottling, Wiring, Capping, and Washing Machines; Measuring Funnel, Filtering Machines, "Water Bath" Boiler, Pill Filling and Counting Machines, Automatic Powder Filling Machine, Canoe Pulverizing Mortar, Anti-breakage Rubber Mallet, Heat-saving Grate, &c.

TYPE WRITER COMPANY, New York City.
Six "Type Writers," used for printing Correspondence.

WHEELER AND WILSON MANUFACTURING CO., New York City. Manufactory, Bridgeport, Conn.
Machine for Sewing Books.
See also Classes 7, 36, 44, 54, *and* 58.

Class 62.—Carriages and Wheelwright's Work.

ALLEN (R. H.) AND CO., New York City.
Warehouse Trucks, furnished for use of Commission.

BREWSTER AND CO., New York City.
Pleasure Carriages, Park Drag, and a Racing Sulky, manufactured from light American Hickory Wood.

CORTLAND WAGGON MANUFACTURING CO., Cortland, New York City.
Platform Spring Waggons, for Pleasure or Business Use.

DAVIS (JOHN G.) AND SON, Philadelphia.
Wheel Stock: Spokes, Rims, and Plough Handles.

HOOPES BROS. AND DARLINGTON, West Chester, Pa.
Wheels, Spokes, Hubs, Felloes, &c.

HOTCHKISS (GREY C.), FIELD AND CO., New York City.
Wood-work for Carriages, Waggons, &c. Tool-handles and other products of American Wood.

IVERS, F., Cambridge, Mass.
Two Buggies.

JACOBS (S. W.) AND SON, Philadelphia.
Two Carriages.

JURY, F. HERMAN, New York City.
Two Folding Children's Carriages.

MOLINE WAGGON COMPANY, Moline, Ill.
One Farm Waggon.

NEW HAVEN WHEEL CO., New Haven, Conn.
Carriage, Cart, Waggon and Truck Wheels, and Wheel Materials of American Woods, for Home use and for Export.

RUBBER CUSHIONED AXLE CO., New York City.
Axles and Wheels.

RUBBER STEP MANUFACTURING CO., Boston, Mass.
Rubber-covered Carriage and Car Steps.

SCHUTTLER, PETER, Chicago, Ill.
Farm, Freight, and Plantation Waggons.

SEIDLE, F., Mechanicsburg, Pa.
Finished Wheels, Spokes, Hubs, Felloes, Shafts, and Poles.

STUDEBACER BROS.' MANUFACTURING CO., South Bend, Ind.
Waggons for Farm, Pleasure, and General Usage.

Class 63.—Harness and Saddlery.

ALBRIGHT, ANDREW, Newark, N. J.
Rubber-coated Harness, and Carriage Trimmings; a metal core, covered with a coating of hard India-rubber, a tough, elastic composition; impervious to acids, water, and atmosphere, will not tarnish, and protects the leather from iron rust, &c.

HADRICH (H. G.), AND SONS, Philadelphia.
Harness and Saddlery in general.
See also Class 47.

LIGHTHOUSE, J. C., Rochester, N. Y.
Horse Collars.

Class 64.—Railway Apparatus.

BARNUM, RICHARDSON AND CO., Lime Rock, Conn.
Car Wheels.
See also Class 43.

BRILL, J. G., Philadelphia.
Street Railway Car.

DUDLEY, P. H., New York City.
Diagrams, mounted on Rolls, showing power required to move railway trains.

FAIRBANKS (E. AND T.) AND CO., St. Johnsbury, Vt.
Railway Track Scales.
See also Classes 6, 10, 15, 50, 54, *and* 76.

HOWE SCALE CO., Rutland, Vt.
Weighing Apparatus for Railroads.
See also Classes 6, 10, 50, 52, 54, 68, *and* 76.

NATIONAL CAR SPRING CO., New York City.
Railway Car Springs.

PHILADELPHIA AND READING RAILROAD CO., Philadelphia.

American Locomotive, adopted for the use of Anthracite Coal.

GENERAL DESCRIPTION.—Approximate weight of Engine, 85,792 lbs.; approximate weight of Tank empty, 22,200 lbs.; Diameter of Drivers 54 inches, Journals $6\frac{1}{8}$ inches; Life of Steel Tire 175,000 miles; Life of Cast-iron Tire 27,000 miles; Life of Truckwheel 50,000 miles; Diameter of Truckwheel 30 inches; Side rod Brasses run 30,000 miles; Cylinders 18 × 24 inches; Roller Valves (Bristol's Patent) 30,000 miles, Lap $\frac{5}{8}$ inch, Lead 1-16 inch, Full Throw $4\frac{3}{4}$ inches; Steam Pipe in boiler 4 inches, S. B. $4\frac{3}{4}$; Exhaust 4 to 5 inches; Boiler 46 inches Diameter, 160 Flues 2 inches Diameter, 10 feet 2 inches long; Boiler largest Diameter 54 inches; Heating surface in Flues 850 square feet; Life of Iron Flues 128,000 miles; Total Heating Surface 967 square feet; Fire Box, inner side sheets $\frac{1}{4}$ inch thick, good for 129,000 miles; Crown Sheet Iron 5-16 inches, outside $\frac{3}{8}$ inches; Water Grate Bars 2 inches outside, $1\frac{1}{2}$ inside, $2\frac{1}{8}$ clearance, $4\frac{1}{2}$ fall; will last as long as fire box; Grate Area 64 square feet; Fire box $8\frac{1}{2} \times 7\frac{1}{2}$ feet; Boiler Iron $\frac{3}{8}$ and $\frac{1}{2}$ inches double riveted; Water Space $3\frac{1}{2}$ inches; Smoke Box 34 inches long from flue sheet, Stack $20\frac{1}{2}$ inches inside; Spark Arrester Corrugated Iron $\frac{1}{8}$ inch thick at bottom, 1-16 at top; Pump $3\frac{1}{2} \times 11$ inches; Grate bars 3-16 and 9-16 inches space; 168 bars.

PULLMAN PALACE CAR CO., Chicago, Ill.

One Model Palace Sleeping Car; One full-sized Palace Sleeping Car.

STEPHENSON (JOHN) CO., New York City.

Three Street Railway Cars.

WESTINGHOUSE AIR-BRAKE CO., Pittsburgh, Pa.

Automatic Air-Brakes for Railroad Cars. In use in the United States, England, France, Belgium, Germany, and other countries and colonies.

WHITNEY (A.) AND SONS, Philadelphia.
Car Wheels.
See also Class 43.

Class 65.—Telegraphic Apparatus and Processes.

COSTON, MARTHA J., Washington, D. C.
Coston's Night Signals.

EDISON, THOS. A., Menlo Park, N. J.
Phonograph, Quadruplex Electric Pen, Speaking Telephone, Musical Telephone, Pressure Relay, and Electromotograph.

GRAY, ELISHA, Chicago, Ill.
Apparatus for transmitting Musical and other Sounds, by Telegraph, including the Multiple Acoustic Telegraph, Way Duplex Telegraph, the Musical Telephone, and the Speaking Telephone.

Class 66.—Apparatus and Processes of Civil Engineering, Public Works, and Architecture.

AMERICAN SOCIETY OF CIVIL ENGINEERS, New York City.
Plans and Models of Engineering: Works Illustrative of Civil Engineering in the United States.

BOWER, B. P., Cleveland, Ohio.
Bower's Sewer Gas Trap: a protection against the escape of Sewer Gas, Back-water, &c.

DAVIS, J. W., Washington, D. C.
The Davis Portable Elevating Telescopic Signal Tower, mounted on wheels, for army use.

GOODYEAR, HARRY, New York City.
The Goodyear Metallic Shingle.

HAYES, GEORGE, New York City.
Model of Windows, showing perforated Metallic Window Blinds and Ventilating Skylights.

HERRING, FARRELL AND SHERMAN, New York City.
Fire and Burglar Proof Safes, for exhibition and for use of the Commission.

JENKINS (W. H.) AND SON, New York City.
Doors and Sashes.

McEVOY AND GAYTON, Cleveland, Ohio.
Bower, Sewer Gas Trap, for exhibition and for use of the Commission.

MEYERS, A. G., New York City.
Water Closets, Wash Basins, and Urinals.

OLMSTEAD, F. L., New York City.
Landscape Drawings.

PENNYPACKER AND BRO., Philadelphia.
Doors, Sash, Blinds, and Shutters.

RUSSELL AND IRWIN MANUFACTURING CO., New Britain, Conn.
Door, Cabinet, and Padlocks, and Builders' Hardware.
See also Classes 11, 25, 43, *and* 59.

Class 67.—Apparatus for Navigation and Life Saving.

BROWN, A. AND F., New York City.
Siren, with Fog Trumpet attached.

DAVIS, WM. J., Philadelphia.
"Reliance Anchor," non-fouling, and self-canting.

GUTTA PERCHA RUBBER MANUFACTURING CO., New York City.
Carbolized Rubber Hose, as used in connection with Fire Engines, or for general use.

KAHNWEILER, DAVID, New York City.
"Never-Sink Cork Jacket."

LA FRANCE MANUFACTURING CO., Elmira, N. Y.
Rotary Steam Fire Engine and Hose Cart.

PAGE, E. W., New York City.
Boat Oars.

ROSETTI, FRANCISCO, New York City.
Rowlocks for Boats.

Class 68.—Materials and Apparatus for Military Purposes.

GATLING GUN CO., Hartford, Conn.
1 Gatling Gun, mounted on Tripod.
1 Ten Barrel 1-inch Gatling Gun.
1 Medium-sized Gatling Gun on Field Carriage.

HOWE SCALE CO., Rutland, Vt.
Weighing Machine for Military Transport Service.
See also Classes 6, 10, 50, 52, 54, 64, *and* 76.

PRATT, WHITNEY AND CO., Hartford, Conn.
The Gardner Machine Gun.

PROVIDENCE TOOL CO., Providence, R. I.
Breech-Loading Military Rifles, with their various parts, from a rough to a finished state.
See also Class 40.

REMINGTON (E.) AND SONS, Ilion, N. Y.
Military Breech-Loading and Magazine Rifles, and Metallic Cartridges.
See also Class 40.

SHARP'S RIFLE CO., Bridgeport, Conn.
Breech-Loading Military Rifles.
See also Class 40.

UNION METALLIC CARTRIDGE CO., Bridgeport, Conn.
Cartridges (Metallic).

UNITED STATES REGULATION FIREARMS CO., New York City.
Springfield Muskets.

Group 7.—Alimentary Products.

Class 69.—Cereals, Farinaceous Products, and Products Derived from them.

ADAIR, Mrs. A. P., Muscogee, Indian Territory.
Sugar Corn.

ANDRES, S. R., Philadelphia.
Beans, Prepared as Food. Bean Flour.

AUGUR, P. M., Middlefield, Conn.
Corn and Grain.

BATTLES, H. A., New Orleans, La.
Rice.

BENNETT, MOORE and CO., Indianapolis, Ind.
Yellow and White Corn.

BIDWELL, John, Chico, Cal.
Wheat: weighing 63—68 pounds per bushel.

BLACKMAR and ALLERTON, Newark, N. Y.
Clover Seed, White and Red Winter Wheat, and Beans.
See also Classes 47 *and* 73.

BRADLEY, G. W., Hamden, Conn.
Corn.

CANARY, J. W., Sulivan, Ind.
White Wheat.

CEREALS MANUFACTURING CO., New York City.
Prepared Cereals.

CHANDLER, JOHN R., Vincennes, Ind.
White Corn.

CLARKE, E. B., Middlefield, Conn.
Agricultural Products.

CLOSSER (J. A.) AND CO., Indianapolis, Ind.
Millet Seed, Corn, Wheat, and products manufactured from them.

COLEMAN, W. H., Concord, N. H.
Wheat and Flour.

COLLINS, GEO. P., Orange County, N. C.
Seeds.

COMPTON, D. A., Hawley.
Corn in the Ear.

CONNECTICUT BOARD OF AGRICULTURE, Hartford, Conn. P. M. Augur, Secretary of State Board of Agriculture.
Oats, Corn, Rye, Beans, &c. Case of eighteen Ears of Corn, the product of three grains.
See also Class 46.

CORBETT, G. W., Penden Co., N. C.
Corn.

CORBETT, J. R., Bladen Co., N. C.
Corn.

CORPENNING, A. J., Caldwell, N. C.
Grains.
See also Classes 74 *and* 75.

ELLCOTE, J. R., Rochester, Ind.
Red Wheat.

EVANS (J. P.) AND CO., Indianapolis, Ind.
Linseed Oil and Meal.
See also Class 47.

FICKLEN (J. B.) AND CO., Fredericksburg, Va.
Flour, Corn, and Corn Meal, Wheat and Maize.

FOERSTER, J., New Orleans, La.
Rice.

FOREMAN, JOHN A., Muscogee, Indian Terr.
Field and Sugar Corn, Corn Meal, Hominy and Grits.

GAFF, RUSH AND THOMAS, Columbus, Ind.
Hominy, Grits, Pearl Meal, Corn Flour, Feed Meal, Corn Meal, Yellow Corn.

GALLUP, CLARK AND CO., Indianapolis, Ind.
Barley and Oats.

GLEN COVE STARCH MANUFACTURING CO., Glen Cove, N. Y.
Starch and Maizena.

GOLD, T. S., West Cornwall, Conn.
Buckwheat.

GREGG, HENRY, Marion, Ind.
White Rye.

HART, MRS. N., Ninety-six, S. C.
Wreath of Seeds.

HAYES, M., Dover, Delaware.
Cereals.

HEPPINGER, SAML., Smith, Ind.
Buckwheat.

HERON, ALEX., Indianapolis, Ind.
Indian Corn on Stalk.

HERON, WM., Connersville, Ind.
Millet.

HOLLER, A. J., Catawba Co., N. C.
Wheat, Corn, and Buckwheat.

INDIANAPOLIS BOARD OF TRADE, Indianapolis, Ind.
Yellow and White Corn (in ear and shelled), Barley Oats, Millet, White Rye, Wheat, White Oats, Clover Seed, Grass Seed, Pop Corn, Flax Seed, Linseed Meal, Hominy, coarse and fine Grits, Pearl Meal, Corn

Flour, Feed and Corn Meal, Indian Corn on stalk, sheaves of Millet, White Wheat, Barley, Rye, Red Wheat, Buckwheat, Corn Starch, &c.

See also Class 46.

JENKINS (F. W.) AND BRO., New York City.
Flour.

KENNEDY, W. M., Duplin Co., N. C.
Sugar Cane.

KILLEBREN, J. B., Nashville, Tenn.
Agricultural Products.

KRESKEN, MISS H. A., Cincinnati, Ohio.
Dried Flowers, &c.; Fruit, Tree, and Vegetable Seeds.

LEAMNIG, J. S., Wilmington, Ohio.
Corn.

LOUISIANA OIL CO., New Orleans, La.
Cotton Seed, Cake, and Meal.
See also Class 46.

McKINNON, D. D., Montgomery Co., N. C.
Sorghum Seed.

MEARES, E., Bladen Co., N. C.
Corn.

MOREMAN, ALONZO, Brandenburg, Ky.
Corn.
See also Class 74.

NAVASSA GUANO CO., New Hanover Co., N. C.
Rice.

OLDHAM, ALEX., Wilmington, N. C.
Pearl Hominy.

OREGON STATE COMMISSION, Portland, Oregon.
Wheat in bunches; Barley, Oats, Flax, Timothy and Orchard Grass; Wheat yielding 60 bushels per acre; Oats, 90 bushels; Oats, yielding 70 bushels, and weighing 50 lbs. per bushel; Barley, yielding 90 bushels per acre.

See also Classes 43, 44, 46, 47, *and* 73.

OUTCALT, J., Spottswood, N. J.
Corn Meal and Hominy.

PEIL (W. F.) AND CO., Indianapolis, Ind.
Refined Corn Starch.

PORTER AND MOWBRAY, Winona, Minn.
Flour.

ROGERS, C. B., Philadelphia.
Diamond Wheat.

ROSS, ROSALIE, Muscogee, Indian Terr.
Hominy.

SCHUMACHER, FERDINAND, Akron, Ohio.
Various Products from Cereals.

SCOTT (WILLIAM) AND CO., Indianapolis, Ind.
White and Yellow Corn, White Rye.

SOCOLA, ANGELO, New Orleans, La.
Rice.

STELTZ, J. GEO., Indianapolis, Ind.
Clover, Millet, Grass Seed and Pop Corn.

THURBER (H. K. AND F. B.) AND CO., New York City.
Oats and Oat Meal, Rye and Rye Flour, Hominy, Corn, Meal, Barley, Wheat, and Wheat cracked, and Flour.
See also Classes 45, 71, 72, 73, *and* 74.

UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C. W. G. Le Duc, Commissioner.
American Grains, and their products.
See also Classes 44, 46, 47, 51, 73, *and* 83.

WEBSTER AND DILLINGHAM, New Orleans, La.
Flour.

WEST VIRGINIA, STATE OF.
Grain and Corn.
See also Classes 43, 44, *and* 46.

WHITE, DUNCAN, Guilford Co., N. C.
Wheat.

WOODWARD AND DWIGHT, St. Louis, Mo.
Flour.

Class 70.—Bread and Pastry.

EXTON, ADAM AND CO., Trenton, N. J.
Unfermented Crackers and Biscuits.

LARRABEE (E. J.) AND CO., Albany, N. Y.
Plain and Fancy Biscuits and Cakes (400 varieties).

WILSON (WALTER J.) AND CO., Philadelphia.
Crackers, Cakes and Biscuits.

Class 71.—Fatty Substances used as Food. Milk and Eggs.

AMERICAN MANUFACTURING AND EXPORTING CO., Philadelphia.
Oleomargerine, or Butter manufactured from Fatty Substances, such as Tallow, &c.

CURTIS AND SWITZER, Chicago, Ill.
Creamery Butter.

FAIRBANKS (N. K.) AND CO., Chicago, Ill.
Refined and Leaf Lard.

HALLER, ELLA, Philadelphia.
Lard in Jars.
See also Classes 27 *and* 73.

McFARLANE (V. W.) AND CO., New York City.
Refined Lard.

NAPHEY (G. C.) AND SON, Philadelphia.
Lard.

NEWMAN AND HAWKINS, Elgin, Ill.
Creamery Butter.

TEMISON AND SON, Philadelphia.
Butter.

THURBER (H. K. AND F. B.) AND CO., New York City.
Edible Cotton Seed Oil.
See also Classes 46, 69, 72, 73, *and* 74.

UNITED STATES EGG DESICCATING CO., New York.
Crystallized Eggs.

WILCOX (W. J.) AND CO., New York City.
Lards, Oils, and Stearine. Capacity of works per year 450,000 tierces of lard, 28,000 tierces of stearine, 28,000 barrels of oil.

Class 72.—Meat and Fish.

BOOTH, W., Portland, Oregon.
Canned Salmon.

BURNHAM AND MORRILL, Portland, Me.
Canned Meats, Salmon, Lobsters, Clams.
See also Class 73.

COOK (J.) AND CO., Portland, Oregon.
Canned Salmon.

ERIE PRESERVING CO., Buffalo and New York.
Canned Goods. Jams and Jellies in Tin and Glass. Sausage Meat in Tin.
See also Class 73.

FICK AND CHASE, Baltimore, Md.
Pickled Oysters.

GROCERS' PACKING CO., Boston, Mass.
Canned Salt Fish and Vegetables.
See also Class 73.

LIBBY, McNEAL AND LIBBY, Chicago, Ill.
Canned Salmon.

McMURRAY, LOUS AND CO., Baltimore, Md.
Oysters in Cans.

RICHARDSON AND ROBBINS, Dover, Del.
Canned Tongues, Game, Meats, and Preserved Fruits.
See also Class 73.

ST. LOUIS BEEF CANNING CO., St. Louis, Mo.
Canned Meats.

THURBER (H. K. AND F. B.) AND CO., New York City.
Canned Meats and Fish.
See also Classes 46, 69, 71, 73, *and* 74.

TRIGG, GEO. P., New York City.
Boneless Codfish.

VALENTINE, M. S., Richmond, Va.
Meat Juices.

WILSON PACKING CO., Chicago, Ill.
Canned Meats.

WRIGHTS (JOSHUA) AND SONS, Philadelphia.
Minced Meats in Cans.

Class 73.—Vegetables and Fruits.

ADAMS, R. A., Johnson County, N. C.
Cheefas—Ground-nuts.

ANDERSON, A., Camden, N. J.
Tomatoes in Glass Jars.

BANTA, E., Milford, Del.
Dried Fruits.

BLACKMAR AND ALLERTON, Newark, N. J.
Dried Apples.
See also Classes 47 *and* 69.

BLOWERS, R. B., Woodlands, Cal.
Raisins.

BONZANO, HUBERT, New Orleans, La.
Pecan Nuts.

BURNHAM AND MORRILL, Portland, Me.
Canned Vegetables.
See also Class 72.

DEITZ, GEO. A., Sacramento, Cal.
Raisins.

DUNBAR (G. W.) AND SONS, New Orleans, La.
Canned Goods; Syrups in Cans.
See also Class 74.

DURBAN, CHAS. L., Mesillwally, Cal.
Raisins.

ERIC PRESERVING CO., Buffalo, and New York City.
Canned Fruits and Vegetables.
See also Class 72.

GORE AND GORE, Wilmington, N. C.
Peanuts.

GROCERS' PACKING CO., Boston, Mass.
Canned Vegetables.
See also Class 72.

HALLER, ELLA, Philadelphia.
Preserved Fruits in Jars.
See also Classes 27 *and* 71.

IOWA STATE HORTICULTURAL SOCIETY, Desmoines, Iowa.
Wax Models of Fruits.

LEWIS (W. K.) AND BRO., Boston, Mass.
Canned and Preserved Fruits.

McKENNY, E. F. AND F. L., Marengo, Ill.
Preserved Fruits.

NEW YORK DESICCATING CO., N. Y.
Desiccated Cocoa.

OREGON STATE COMMISSION, Portland, Oregon.
Vegetable Seeds.
See also Classes 43, 44, 46, 47, *and* 69.

PERRY, F. H., Providence, R. I.
Preserved Fruits.

PLUMMER, M., Portland, Oregon.
Dried Fruits and Vegetables.

REYNOLDS, A. J., Chicago, Ill.
Fruit Evaporating Machine, and Evaporated Fruit.
See also Class 76.

RICHARDSON AND ROBBINS, Dover, Del.
Preserved Fruits.
See also Class 72.

SCHIMMUT (J. O.) AND CO., Philadelphia.
Fruit Butter.

THURBER (H. K. AND F. B.) AND CO., New York City.
Canned Fruits and Vegetables.
See also Classes 46, 69, 71, 72, *and* 74.

UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C. W. G. Le Duc, Commissioner.
Plaster Casts of Fruits and Vegetables of the U. S.
See also Classes 44, 46, 47, 51, 69, *and* 83.

WING (D.) AND BRO., Rochester, N. Y.
Dried Fruits and Vegetables.

WORTH, MRS. J. I., Fayetteville, N. C.
Preserved Fruits.

Class 74.—Condiments and Stimulants, Sugar and Confectionery.

AMERICAN GRAPE SUGAR CO., Buffalo, N. Y.
Sugar and Syrup, from Grapes.

AVERY, D. D., Iberia Parish, La.
Rock and Coarse Salt.

BAKER (WALTER) AND CO., Boston, Mass.
Chocolate and Cocoa.

BRAND (J. H.) AND CO., Louisville, Ky.
Mustard.
See also Class 46.

BRIERRE (T. H.) AND CO., New Orleans, La.
Sugar and Molasses.

CONGER AND KELLY, New Orleans, La.
Sugar.

CORPENNING, A. J., Caldwell, N. C.
Sorghum Syrup.
See also Classes 69 *and* 75.

DUNBAR (G. W.) AND SONS, New Orleans, La.
Syrup in Cans.
See also Class 73.

GAY (EDWARD J.) AND CO., New Orleans, La.
Sugar, Molasses, and Syrup.

GAY, STEPHEN, New Orleans, La.
Medicated Syrup.

GOODWIN, P. M., New Orleans, La.
Eureka Yeast Powder.

KNIGHT, HAROLD H., Zanesfield, Ohio.
Maple Sugar.

LEEDS, PAUL B., New Orleans, La.
Salt.

McILHENNY, E., New Iberia Parish, La.
Tabasco Pepper Sauce.

MAILLARD, HENRY, New York City.
Chocolate and Confectionery.
Chocolate statues representing the four parts of the world, made by a new process, weighing 100 lbs. each. Five Medicis Vases made of solid Chocolate, and weighing 180 lbs. each. An album entitled "Voyage dans Ile des Plaisirs," containing 3,000 different styles of Bonbons and fancy Chocolate.

MOREMAN, ALONZO, Brandenburg, Ky.
Salt.
See also Class 69.

SCHEPP, LEOPOLD, New York City.
Desiccated Cocoanut.

THOMSON (A.) AND CO., New Orleans, La.
Sugar, Molasses, and Syrup.

THURBER (H. K. AND F. B.) AND CO., New York City.
Sugar, Glucose, and Syrups made from Maize (Corn) Honey.
See also Classes 46, 69, 71, 72, *and* 73.

VINCENT, Geo. A., New Orleans, La.
Honey, Liquid and in Comb.

WALZ, Alphonse, New Orleans, La.
Bitters.

WHITMAN, Stephen F., Philadelphia.
Chocolate and Confections.

Class 75.—Fermented Drinks.

AMERICAN WINE CO., St. Louis, Mo.
Champagne.

ANHEUSER (E.) and CO., BREWING ASSOCIATION, St. Louis, Mo.
Lager Beer.

BARNEY, Lewis T., Keokuk, Iowa.
Wines.

BERGNER and ENGEL, Philadelphia.
Lager Beer, Pilsen Beer, and Bock Beer.

BEST (Philip) BREWING CO., Milwaukee, Wis.
Lager Beer, bottled for export.

BUSH (Isidor) and CO., St. Louis, Mo.
Wines.

CLARK, George, New York City.
Bitters.

CLAUSEN (H.) and SON, New York City.
Bottled Beer.

COPENNING, A. J., Caldwell, N. C.
Wines.
See also Classes 69 *and* 74.

FIEGENSPAN and CO., New York City.
Lager Beer.

GARRETT (C. W.) and CO., Halifax Co., N. C.
Wines.

GIBSONS (JOHN) SONS AND CO., Pittsburgh, Pa.
Whiskey.

GREEN, CICERO, Craven Co., N. C.
Whiskey.

GÜCKERHEIMER AND BROS., Pittsburgh, Pa.
Whiskey.

HINCKE, JULIUS. Egg Harbour, N. J.
Wines.

HOOPER, G. F., Sonoma, Cal.
Native Wines.

HORNE, H. R., Fayetteville, N. C.
Scupunong Wines.

KUNTZ, J. AND S. F., Morrisania, N. Y.
Lager Beer.

LEMP, W. J., St. Louis, Mo.
Bottled Beer.

MASSEY (WM. C.) AND CO., Philadelphia.
Ale and Porter.

MONICTELLO WINE CO., Charlottesville, Va.
Wines.

POESCHEL AND SCHERER, Hermann, Mo.
Wines.

REDLICH MANUFACTURING CO., Chicago, Ill.
India Rubber Saturated Faucets, Corking Machines, Plugs, Vents, Bungs, Mallets, Labels, &c.

RICKETTS, J. H., Newburg, N. Y.
Wines.

REUTER AND ALLEY, Boston, Mass.
Ales.

SHUFELDT, H. G., Chicago, Ill.
Whiskey. Grain used in Manufacture of Alcoholic Spirits, Specimens of Materials from the Intermediate Stages of the Process of Manufacture and Finished Product.

UHRIG (Jos.) BREWING CO., St. Louis, Mo.
Lager Beer.

URBANA WINE CO., Hammondsport, N. Y.
Sparkling Wines.

VERGNOLE, Jos., New Orleans, La.
Cordials and Bitters.

Group 8.—Agriculture and Pisciculture.

Class 76.—Specimens of Farm Buildings and Agricultural Works.

ADRIANCE, PLATT AND CO., New York City.
One New Model "D" A. P. and Co. "Buckeye" Mower. One ditto with Manual Delivery. One A. P. and Co. "Buckeye" Combined Mower and Self-Raking Reaper. One "Adriance" Self-Raking Single Reaper.

AMERICAN FENCE MANUFACTURING CO., New York City.
Fences: Wood and Wire Combined.

AULTMAN (C.) AND CO., Canton, Ohio.
Two Buckeye Mowing Machines. One Table Rake. Side Delivery Reaper and Mower Combined. One Harvester and Automatic Self-Binder Combined. One Rear Delivery Reaper and Mower Combined. One Agricultural Engine, 12-horse power.

BAY STATE RAKE CO., Winchendon, Mass.
Horse Hay Rake.

BICKFORD AND HUFFMAN, Macedon, N. Y.
Seed Drills, for sowing and Measuring all kinds of Grain and Grass Seeds.

CASE (J. I.) AND CO., Racine, Wis.
Harvesting, Threshing, and Cleaning Machines.

CHADBURN AND COLDWELL, Newburgh, N. Y.
Lawn Mowing Machines.
See also Class 52.

COATES (A. W.) AND CO., Alliance, Ohio.
Hay and Grain Rake; Lock Lever.

COLLINS AND CO., Hartford, Conn.
Gang Ploughs.
See also Class 43.

DAY, B. H., Underhill, Vt.
The Powell Broadcast Seed Sower and Grain Coverer.

DEDERICH (P. K.) AND CO., Albany, N. Y.
Hay Press, Horse Power, Bale Tie Machine.

DEERE AND CO., Moline, Ill.
Ploughs (Gang and Sulky).

DICKEY, A. P., Racine, Wis.
Fan for separating Grain and Chaff.

DODD, JOHN, Dayton, Ohio.
Horse Hay Rake, Hollingsworth's Patent.

EAGLE MOWING AND REAPING MACHINE CO., Albany, N. Y. Wm. Anson Wood, President.
Mowers, Reapers, and Binders.

ECLIPSE WINDMILL (A. J. COCORAN), New York City.
Improved Solid Wheel, Self-Regulating Windmill.

FAIRBANKS (E. AND F.) AND CO., St. Johnsbury, Vt.
Scales for Weighing Cattle and for various Farm Purposes.
See also Classes 6, 10, 15, 50, 54, *and* 64.

FARMERS' FRIEND MANUFACTURING CO., Dayton, Ohio.
Grain Drills.

FARQUHAR, A. B., York, Pa.
Threshing Machine, and Horse Power.

GALE MANUFACTURING CO., Albion, Mich.
Hay Rake, and Chilled Iron Plough.

GRAHAM, EMLEN AND PASSMORE, Philadelphia.
Philadelphia Lawn Mower.

HILLS' ARCHIMEDEAN LAWN MOWER CO., Hartford, Conn.
Lawn Mowers.

HOWE SCALE CO., Rutland, Vt.
Weighing Apparatus for Farms and Plantations.
See Classes 6, 10, 50, 52, 54, 64, *and* 68.

JOHNSTON HARVESTER CO., Brockport, N. Y.
Mowers and Reapers, Combined Machines, and Grain Binder.

LLOYD, SUPPLE, AND WALTON, Philadelphia.
Lawn Mowing Machine.

McCORMICK, C. H. AND L. J., Chicago, Ill.
Mowing, Reaping, and Binding Machines.

MARKT AND CO., New York City.
Horse Rakes, Forks, Shovels, and Hoes, &c.

OSBORNE (D. M.) MANUFACTURING CO., Auburn, N. Y.
Mowing and Reaping Machines.

RANDOLPH, THEO. F., Morristown, N. J.
Ditching Machine, worked by Horse-power, and used for making Excavations and Ditches.

REYNOLDS (A. J.), Chicago, Ill.
Evaporated Fruits.
See also Class 73.

SPEER (ALEX.) AND SONS., Pittsburgh, Pa.
Ploughs and Cultivators.

STODDARD (JNO. W.) AND CO., Dayton, Ohio.
Self-operating Hay Rake, Grain Drill, and Broadcast Seeder.

STRATTON AND CULLUM, Meadville, Pa.
Hay Loader.

TAYLOR, B. C., Dayton, Ohio.
Hay Rakes.

TAYLOR MANUFACTURING CO., Westminster, Md.
1 Empire Threshing Machine.
See also Class 54.

THAYER, J. S., Albany, N. Y.
Mowing, Raking, Reaping, Harvesting, and Binding Machines.

UNITED STATES WINDMILL, ENGINE, AND PUMP CO., Batavia, Ill.
2 Windmills.

UNIVERSAL PEACE UNION, Philadelphia.
Peace Plough, made from Swords used in War.

WARDER, MITCHELL AND CO., Springfield, Ohio.
Mowing and Reaping Machines, Single and Combined.

WOOD, WALTER A., Hoosick Falls, N. Y.
Harvester and Self-Binder, Self-rake Controllable Reapers, 1 and 2-horse Grass Mowing Machines, 1 and 2-horse Combined Mowing and Reaping Machines.

WOOD, WILLIAM ANSON, Albany, N. Y.
Mowing and Reaping Machine, manufactured by the Eagle Mowing and Reaping Machine Co.

WOODWARD, W. W., Cartersville P. O. Barton County, Ga.
Cotton Seed Sower.

Class 83.—Useful Insects and Noxious Insects.

UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C. W. G. Le Duc, Commissioner.
Insects injurious to the Principal Crops of the Country.
See also Classes 44, 46, 47, 51, 69, *and* 73.

Class 89.—Seeds and Saplings of Forest Trees.

MEEHAN, THOS., Germantown, Pa.
Seeds of Forest Trees.

ART GALLERY

D. MAITLAND ARMSTRONG, *Superintendent*

The selection of Paintings for Exhibition was left by the Commissioner-General to Committees composed of the following named gentlemen

IN NEW YORK

E. D. Morgan
J. W. Pinchot
N. M. Beckwith
Parke Godwin
Robert G. Dun
J. Taylor Johnston
Robert Gordon
H. G. Marquand
John H. Sherwood
Charles S. Smith

IN PARIS

Augustus Saint-Gaudens
D. Maitland Armstrong
C. E. Detmold

ALPHABETICAL CATALOGUE

OF THE

UNITED STATES EXHIBITORS IN THE ART GALLERY OF THE UNIVERSAL EXPOSITION OF 1878 AT PARIS

A. ANDERSON, *New York City.*
1.—Palm Sunday.

HENRY BACON, *Paris.*
2.—Land! Land!

W. H. BEARD, *New York City.*
3.—The Wreckers.

J. CARROLL BECKWITH, *Paris.*
4.—Portrait.
5.—The Falconer.

A. F. BELLOWS, *New York City.*
6.—A New England Village School.

H. R. BLOOMER, *Paris.*
7.—Old Bridge at Grez.

EUGENE BENSON, *Rome.*
8.—Hasheish Smokers, Jerusalem. (Owner, S. R. Van Duzer.)

EDWARD D. BOIT, *Paris.*
9.—Beach of Villers, Normandy.

GEORGE H. BOUGHTON, *London.*
10.—Wouter von Twiller's First Court in New Amsterdam. (Owner, John H. Sherwood.)

F. A. BRIDGMAN, *Paris.*
11.—Funeral of a Mummy on the Nile. (Owner, J. G. Bennett.)
12.—Allah, Allah, Akbah.

J. B. BRISTOL, *New York City.*
13.—Lake Champlain, from Ferrisburgh, Vermont.

J. G. BROWN, *New York City.*
14.—St. Patrick's Day. (Owner, Mr. Hurlburt.)
15.—The Passing Show. (Owner, Denis Gale.)

W. GEDNEY BUNCE, *Paris.*
16.—Approach to Venice.

GEORGE B. BUTLER, JUN., *Capri, Italy.*
17.—A Cat. (Owner, H. E. Howland.)
18.—Dogs on the Campagna. (Owner, Richard Butler.)

MISS M. CASSATT, *Paris.*
19.—Head.

E. E. CHURCH, *Hudson, New York.*
20.—Morning in the Tropics. (Owner, Wm. E. Dodge, Jun.)
21.—The Parthenon. (Owner, Morris K. Jessup.)

CHARLES C. COLEMAN, *Rome.*
22.—Decorative Panel.
23.—Venice, Ancient and Modern.

SAMUEL COLMAN, *New York City.*
24.—Emigrant Train crossing a Ford. (Owner, L. C. Tiffany.)
25.—The Guadalquiver.

MRS. C. B. COMAN, *Paris.*
26.—Near Fontainebleau. (Owner, Rev. E. W. Hitchcock.)

W. P. W. DANA, *Paris.*
27.—The Shore at Dinard.
28.—Solitude.
29.—A Squall.

LOCKWOOD DEFOREST, *New York City.*
30.—The Pyramid of Sakkarah.

M. F. H. DE HAAS, *New York City.*
31.—Rapids above Niagara Falls.

F. DIELMAN, *New York City.*
32.—Patrician Lady of the 16th Century.

MISS S. P. B. DODSON, *Paris.*
33.—The Dance.

CHAS. E. DUBOIS, *Paris.*
34.—Morning in Venice.
35.—Autumn.
36.—View on the Hudson.

WYATT EATON, *New York City.*
37.—Harvesters at Rest.
38.—Reverie.

C. L. ELLIOTT (deceased).
39.—Portrait of A. W. Morgan. (Owner, E. D. Morgan.)

MONTAGUE FLAGG, *Paris.*
40.—The Finishing Touch. (Owner, W. G. Bunce.)

FRANK FOWLER, *Paris.*
41.—Young Bacchus.

WALTER GAY, *Paris.*
42.—Landscape.

MISS E. J. GARDNER, *Paris.*
43.—Flower Girl.
44.—Ruth and Naomi.

R. SWAIN GIFFORD, *New York City.*
45.—New England Cedars. (Owner, George C. Clark.)

SANFORD R. GIFFORD, *New York City.*
46.—Mount Renier. (Owner, Robert G. Dun.)
47.—Saint Georgio, Venice. (Owner, Richard Butler.)

WILLIAM GRAHAM, *Rome, Italy.*
48.—View in a California Cemetery.

S. J. GUY, *New York City.*
49.—Baby's Bed-time. (Owner, John H. Sherwood.)
50.—Learning the Gamut. (Owner, P. Vanvalkenburgh.)
51.—Portrait of C. L. Elliott. (Owner, John H. Sherwood.)

J. McL. HAMILTON, *Philadelphia.*
52.—Cerise.

JAMES M. HART, *New York City.*

53.—American Landscape, Indian Summer. (Owner, John H. Sherwood.)

54.—A Summer Memory of Berkshire. (Owner, E. D. Morgan.)

G. P. A. HEALY, *Paris.*

55.—Portrait of Mrs. Noyes. (Owner, Gen. E. F. Noyes.)

56.—Portrait of Lord Lyons.

E. L. HENRY, *New York City.*

57.—Off for the Races. (Owner, Fairman Rogers.)

WINSLOW HOMER, *New York City.*

58.—A Country School-room. (Owner, John H. Sherwood.)

59.—A Visit from the Old Mistress.

60.—Snapping the Whip. (Owner, John H. Sherwood.)

61.—Sunday Morning in Virginia.

T. HOVENDEN, *Finistère, France.*

62.—A Breton Interior.

A. C. HOWLAND, *New York City.*

63.—Ford's Glen. (Owner, George P. Wetmore.)

D. HUNTINGDON, *New York City.*

64.—Philosophy and Christian Art. (Owner, Robert Hoe, Jun.)

65.—Portrait. (Owner, R. Stuyvesant.)

GEO. INNESS, *New York City.*

66.—St. Peter's, Rome, from the Tiber.

67.—View near Medfield, Massachusetts.

J. B. IRVING (deceased).

68.—The Connoisseurs. (Owner, John H. Sherwood.)

EASTMAN JOHNSON, *New York.*
69.—The Corn Husking. (Owner, N. Sarony.)
70.—"What the Shell says." (Owner, B. H. Field.)

W. BOLTON JONES, *Paris.*
71.—Return of the Cows, Brittany.

J. F. KENSETT (deceased).
72.—The White Mountains. (Owner, John H. Sherwood.)

JOHN LAFARGE, *New York.*
73.—Paradise Valley, Newport. (Owner, Miss Alice Hooper.)

GEO. C. LAMBDIN, *Germantown, Philadelphia.*
74.—Roses on a Wall.

T. LE CLEAR, *New York City.*
75.—Portrait of Parke Godwin. (Owner, Parke Godwin.)

WM. H. LIPPINCOTT, *Paris.*
76.—Portrait of Dr. G. D. Cochrane.
77.—Portrait of Dr. Nachmann.

CHESTER LOOMIS, *Paris.*
78.—A Poacher in the 15th Century.

E. H. MAY, *Paris.*
79.—Portrait of General Carroll Tevis.

GEO. W. MAYNARD, *Paris.*
80.—Portrait.

J. McENTEE, *New York City.*
81.—An Autumnal Idyl.
82.—The Falling Leaves. (Owner, George C. Cooper.)

C. H. MILLER, *New York City.*
83.—Oaks at Creedmoor, L. I.

EDWARD MORAN, *Paris.*
84.—Return of the Life-Boat.

H. H. MOORE, *New York City.*
85.—The Moorish Bazaar. (Owner, Chas. S. Smith.)

MISS M. B. ODENHEIMER, *Paris.*
86.—Marie.

B. C. PORTER, *Boston, Massachusetts.*
87.—Portrait of a Lady (Miss Howe).

ARTHUR QUARTLEY, *New York.*
88.—Morning Effect in New York Harbour. (Owner, John Taylor Johnston.)

E. REIN, *Paris.*
89.—Winter Evening in New England.

W. T. RICHARDS, *Newport, R. I.*
90.—In the Woods. (Owner, Robert G. Dun.)
91.—Landscape, Spring. (Owner, John H. Sherwood.)
92.—The Forest. (Owner, George Whitney.)

H. W. ROBBINS, *New York City.*
93.—The Harbour Islands, Lake George.

J. L. SARGENT, *Paris.*
94.—Portrait. (Owner, Miss W.)

W. A. SHADE, *Dusseldorff, Germany.*
95.—A Page.
96.—La Marguerite.
97.—My Daily Visitor.

WALTER SHIRLAW, *New York City.*
98.—Sheep-Shearing in the Bavarian Highlands.

LEWIS T. SHONBORN, *Paris.*
99.—Portrait.

A. WORDSWORTH THOMPSON, *New York City.*
100.—The School-House on the Hill.

L. C. TIFFANY, *New York City.*
101.—Duane Street, near William Street, New York.

MISS CLEMENTINA TOMPKINS, *Paris.*
102.—The Little Artist.
103.—Rosa la Fileuse.

S. W. VAN SCHAICK, *Florence, Italy.*
104.—Portrait. (Owner, W. E. Brackin.)

E. VEDDER, *Rome, Italy.*
105.—Cumean Sybil.
106.—The Young Marsyas.
107.—The Old Madonna. (Owner, E. D. Morgan.)

F. P. VINTON, *Paris.*
108.—Head.
109.—Head of a Neapolitan Boy.

CHAS. VOLKMAR, *Montigny, France.*
110.—Landscape with Cattle.

EDGAR M. WARD, *Paris.*
111.—The Sabot Maker.
112.—Venetian Water Carriers.
113.—The Washing in Brittany. (Owner, John H. Sherwood.)

MYRON WARD, *Paris.*
114.—Head.

J. ALDEN WEIR, *New York City.*
115.—A Breton Interior.

JOHN F. WEIR, *New Haven, Connecticut.*
116.—Forging the Shaft.

F. D. WILLIAMS, *Paris.*
117.—The Marne.

L. E. WILMARTH, *New York City.*
118.—Ingratitude. (Owner, John P. Jones.)

W. WHITTREDGE, *New York City.*
119.—Forest Brook. (Owner, Whitelaw Reid.)
120.—The Platte River. (Owner, Century Club.)

T. W. WOOD, *New York City.*
121.—The Contraband. (Owner, Chas. S. Smith.)
122.—The Recruit. (Same owner.)
123.—The Veteran. (Same owner.)

A. H. WYANT, *New York City.*
124.—A New England Landscape.

ROBERT WYLIE (deceased).
125.—Death of a Vendeen Chief. (Owners, Goupil and Co., Paris.)

GEO. H. YEWELL, *Perugia, Italy.*
126.—Mosque of Kait-Bey, Cairo.
127.—Carpet Bazaar, Cairo.

WATER COLOURS

A. ABBEY, *New York City.*
128.—The Stage Office. (Owner, Robert G. Dun.)

A. F. BELLOWS, *New York City.*
129.—A New England Homestead.

A. T. BRICHER, *New York City.*
130.—In a Tide Harbour.

S. COLMAN, *New York City.*
131.—The Cathedral at Quimper.

H. FARRER.
132.—A Quiet Pool. (Owner, Robert Gordon.)

R. SWAIN GIFFORD, *New York City.*
133.—Evening in the Sahara.
134.—On the Lagoon, Venice.
135.—Salt Vats at Dartmouth, Massachusetts.

J. C. NICOLL, *New York City.*
136.—Shower on the Coast.
137.—On the Gulf of St. Lawrence.

W. T. RICHARDS, *Newport, R. I.*
138.—South-West Point, Conanicut.

H. W. ROBBINS, *New York City.*
139.—New England Homestead.

L. C. TIFFANY, *New York City.*
140.—A Stranger's Visit to the Cobblers of Bonfrait.
141.—Market Day on the Cathedral Steps of St. Melaine.

T. WUST, *Paris.*
142.—Sketches of Virginia Negroes.

A. H. WYANT, *New York City.*
143.—A Reminiscence of the Connecticut River.

DRAWINGS

A. ABBEY, *New York City.*
144.—Engraved by David Nichols.

A. B. COPELAND, *Paris.*
145.—Outward Bound.

WYATT EATON, *New York City.*
146.—Portrait of H. H. Boyesen.

GORDON GREENOUGH, *Paris.*
147.—Portrait of Comtesse dc Banuelos.

MRS. ELIZA GRETOREX, *Paris.*
148.—House of Talleyrand, New York.

J. E. KELLY, *New York City.*
149.—Measuring Boys.

T. MORAN, *Newark, N. J.*
150.—Engraved by F. S. King.

ETCHINGS AND ENGRAVINGS

ON WOOD

COLE.

J. P. DAVIS.

F. S. KING, *New York City.*
151.—Designs by J. C. BEARD.
MISS F. BRIDGES.
SOL EYTING, JUN.
F. SANDHAM.

T. COLE.
152.—After Various Designs.

WYATT EATON, *New York City.*
153.—Lincoln.

J. A. MITCHELL, *Paris.*
154 and 155.—1. Place de l'Opéra.—2. The End of the Act.

HENRY MARSH, *New York City.*
156 and 157.—Designs by John La Farge.
158.—Butterflies and Design by John La Farge.
159.—Designs by Mrs. Mary Hallock Foote.
160 and 161.—Designs by Miss Helena De Kay.

FREDERICK MOLLER, *Paris.*
162.—Designs by Lancan.

STATUETTES

MONTAGUE HANDLEY, *Rome, Italy.*

163.—A Rough Day on the Roman Campagna.

164.—A Cattle Driver of the Roman Campagna.

165.—Portrait. (Owner, the Duke of Leuchtenberg.)

CHISWICK PRESS :—CHARLES WHITTINGHAM, TOOKS COURT,
CHANCERY LANE.